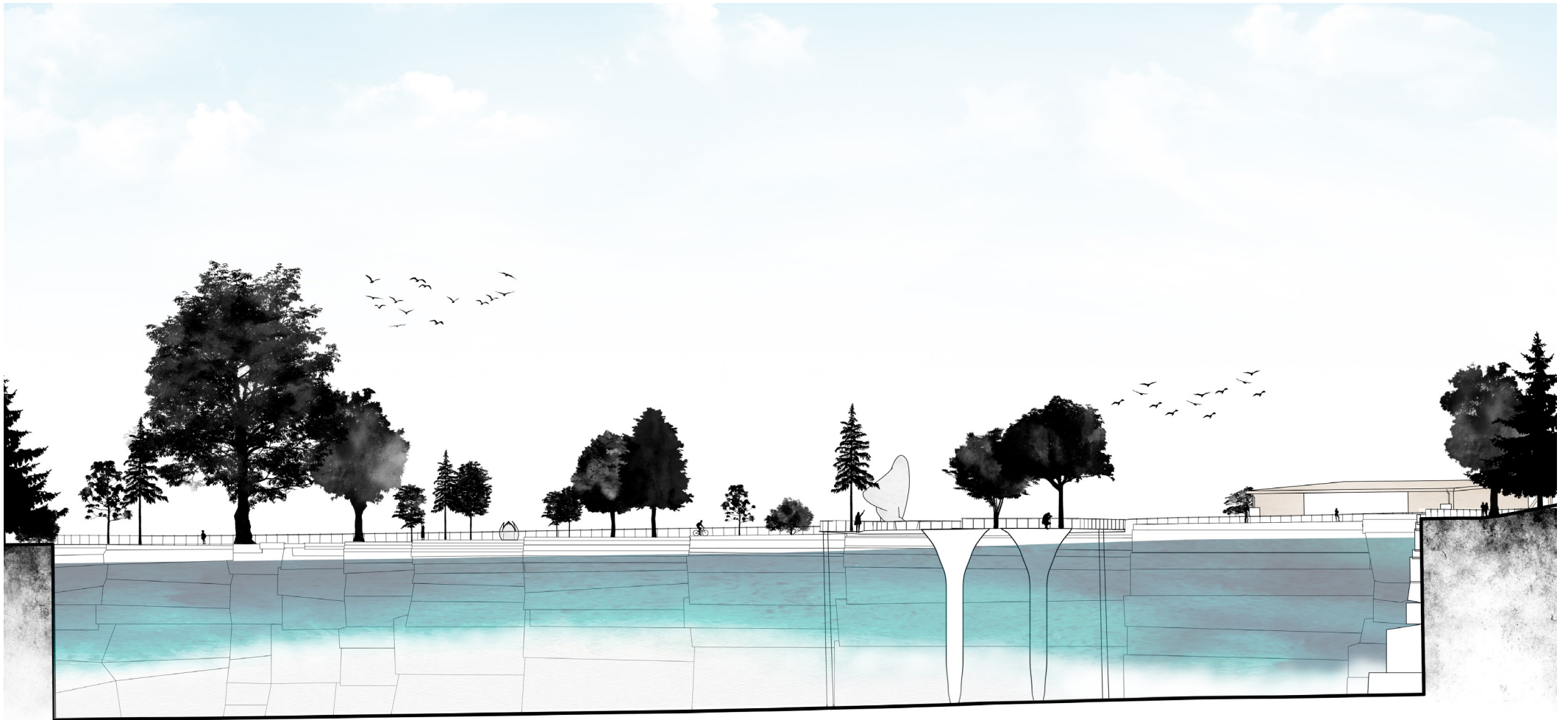


# (RE)DEFINED

HOW CAN ABANDONED QUARRIES BE REGENERATED TO SERVE A NEW PURPOSE?

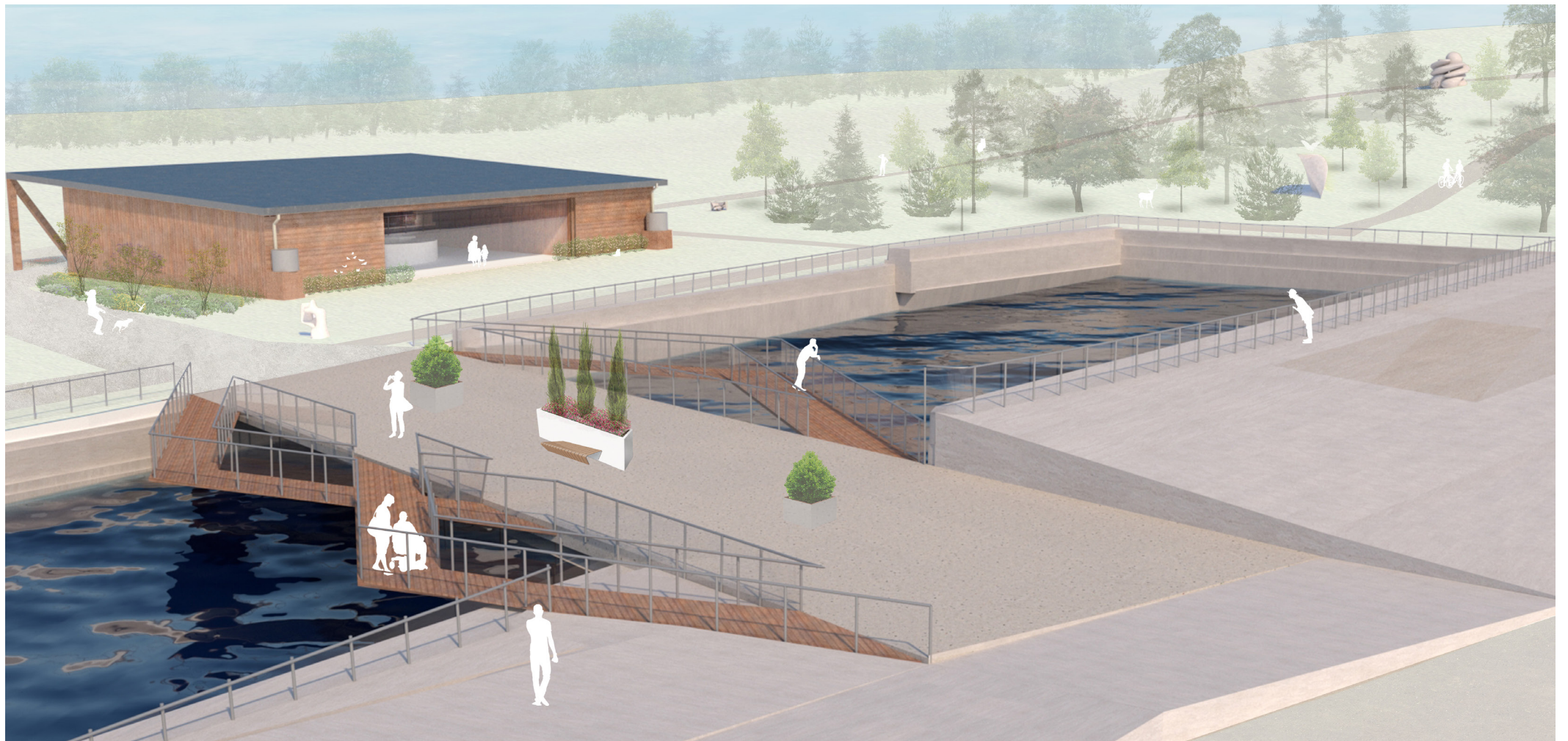


PROJECT CREATED BY JASMINE ASKREN

FACULTY ADVISOR PROFESSOR STEVIE FAMULARI, GDS.

SECTION DRAWING CREATED BY JASMINE ASKREN, 2024.

# HOW CAN ABANDONED QUARRIES BE REGENERATED TO SERVE A NEW PURPOSE?



RENDERED PERSPECTIVE CREATED BY JASMINE ASKREN, 2024.

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APRIL 2024

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# STUDENT PROFILE

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*“A WELL-DESIGNED LANDSCAPE IS A CATALYST FOR CONNECTION. IT FOSTERS RELATIONSHIPS BETWEEN PEOPLE AND THEIR SURROUNDINGS, CREATING A SENSE OF PLACE THAT RESONATES WITH IDENTITY AND BELONGING.”*

ATTRIBUTED TO MIA LEHRER



## RELEVANT COURSE EXPERIENCE

### UNIVERSITY OF CINCINNATI

HORT4092 – SENIOR PROJECT IN HORTICULTURE, SPRING 2024, PROFESSOR STEVIE FAMULARI, GDS.

NOTABLE PROJECTS:

LARSEN LIVERPOOL REGENERATIVE QUARRY DESIGN COMPETITION

HORT2031 – WOODY ORNAMENTALS II, SPRING 2024, PROFESSOR STEVE FOLTZ

NOTABLE PROJECTS:

100+ PLANT IDENTIFICATION AND MEMORIZATION VIA WEEKLY QUIZZES

HORT4090 – SPECIAL TOPICS IN HORTICULTURE: VISUALIZATION, FALL 2023, PROFESSOR HYE YEON PARK

NOTABLE PROJECTS:

UTAH CITY MALL LANDSCAPE DESIGN

SPRING GROVE CEMETERY AND ARBORETUM ENTRY REDESIGN

UTAH COLUMBARIUM DESIGN

HAND DRAFTING CONCEPT DIAGRAMS

HORT3050 – LANDSCAPE HISTORY TO 1900, FALL 2023, PROFESSOR STEVIE FAMULARI, GDS.

NOTABLE PROJECTS:

DESIGN FOR A COMBINED PLAYGROUND AND CEMETERY

SINKING CITY MITIGATION PROJECT FOR NEW ORLEANS

HORT3010 – SOIL SCIENCE AND PLANT NUTRITION, SPRING 2023, DR. DAN PETERSON & PROFESSOR TANIA BURGOS-HERNANDEZ

HORT2033 – HERBACEOUS ORNAMENTALS II, SUMMER 2023, PROFESSOR JIM HANSEL

NOTABLE PROJECTS:

EXCEL SHEET OF 100+ HERBACEOUS PLANTS AND IDENTIFYING CHARACTERISTICS

HORT 1011 – HORTICULTURE SCIENCE II, SPRING 2023, PROFESSOR JIM HANSEL

NOTABLE PROJECTS

(ADD LATER)

HORT1010 – HORTICULTURE SCIENCE I, SPRING 2022, PROFESSOR BRIAN GRUBB

NOTABLE PROJECTS

HORT 3044 – URBAN LANDSCAPES IV GREEN ROOFS AND FACADES, SPRING 2022, PROFESSOR VIRGINIA RUSSELL

NOTABLE PROJECTS

EDIBLE GARDEN DESIGN ON DAAP ROOF

### CINCINNATI STATE COMMUNITY AND TECHNICAL COLLEGE

LH205 – WOODY ORNAMENTALS, FALL 2023, PROFESSOR MARK DEACON

NOTABLE PROJECTS:

150+ WOODY PLANT SPECIMEN SAMPLE COLLECTION BINDERS

LH151-001 – SUSTAINABLE LANDSCAPE DESIGN I, SPRING 2023, PROFESSOR MARK DEACON

NOTABLE PROJECTS:

RESIDENTIAL LANDSCAPE DESIGN

# ABSTRACT

## HOW CAN ABANDONED QUARRIES BE REGENERATED TO SERVE A NEW PURPOSE?

QUARRIES ACROSS THE WORLD WHICH WERE ONCE THRIVING NATURAL LANDSCAPES TURNED INDUSTRIAL SITES HAVE NOW BEEN LEFT AS SCARS ACROSS THE EARTH. WHILE IT WOULD BE IMPOSSIBLE TO RESTORE THESE SITES TO IDENTICAL COPIES OF THEIR FORMER LANDSCAPES, EFFORTS MADE TO BRING LIFE BACK TO THESE ABANDONED QUARRY SITES WOULD NOT BE WASTED. FOCUSING ON THE ABANDONED NORCROSS-WEST MARBLE QUARRY LOCATED IN DORSET, VERMONT, THIS PROJECT SHOWS HOW A FLOODED QUARRY SITE CAN BE REGENERATED TO CREATE A SAFE SPACE FOR PEOPLE TO INTERACT WITH WHILE IT ALSO ADDS ECOLOGICAL FUNCTION BACK INTO THE SITE. THE PROPOSED SITE CURRENTLY FUNCTIONS AS A POPULAR SWIMMING HOLE, AND THE GOAL OF THE PROJECT IS NOT TO DRIVE PEOPLE AWAY. THE DESIGN WILL IMPROVE THE AESTHETIC ASPECT OF THE SITE WITH MUCH NEEDED SAFETY MEASURES, AS WELL AS CREATING OTHER AREAS OF THE SITE FOR EXPLORATION AND EDUCATION, AND RESTORING HABITATS AND PLANT LIFE.



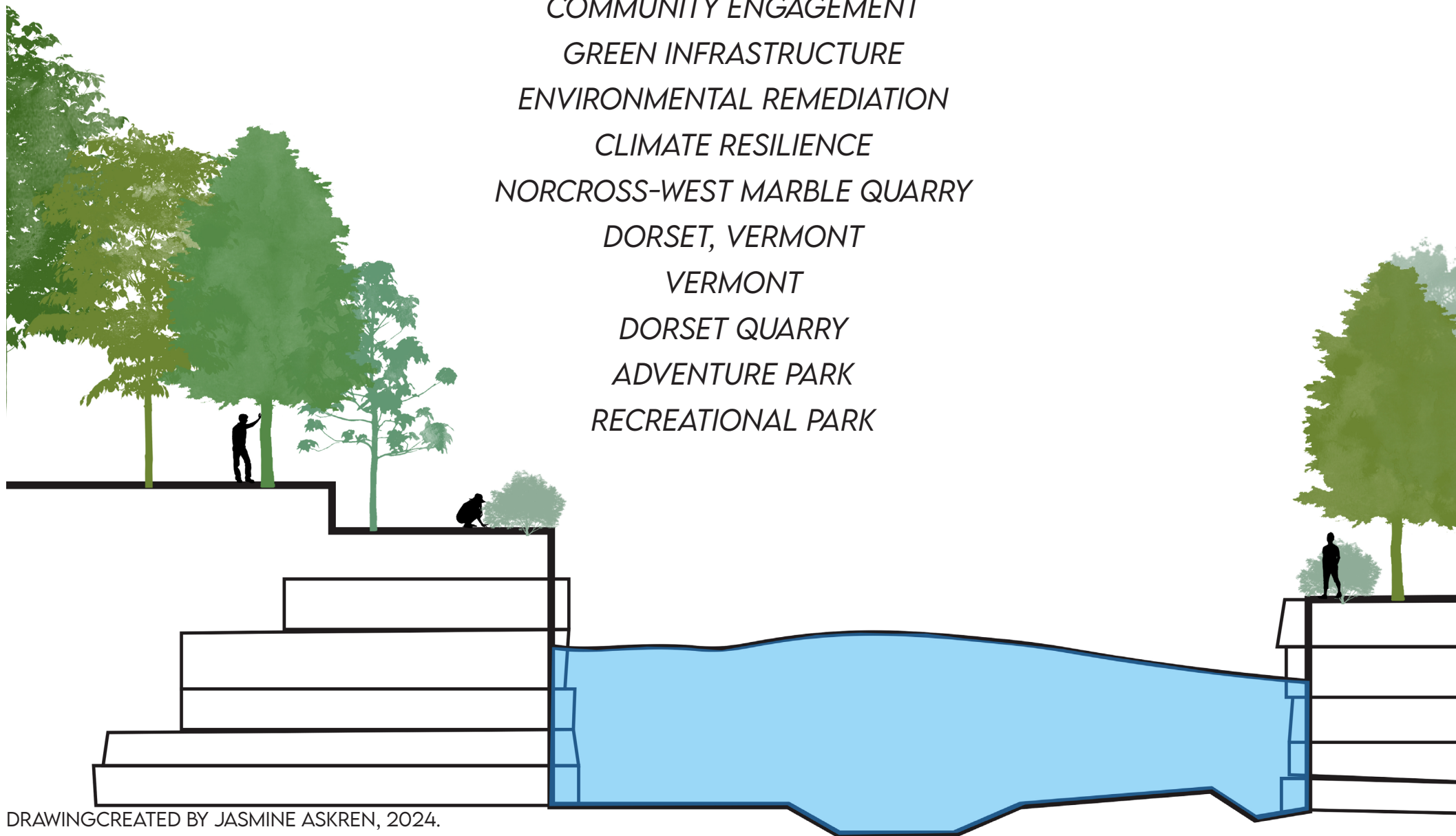
(ABOVE) HOLLISTER QUARRY, PITTSFORD. VERMONT MARBLE MUSEUM, JSTOR, [HTTPS://JSTOR.ORG/STABLE/COMMUNITY.30443024](https://jstor.org/stable/community.30443024). ACCESSED 25 MAR. 2024.



(ABOVE) BE'ER SHEVA QUARRY PARK, BE'ER SHEVA, ISRAEL. SCAPE LANDSCAPE STUDIO, [HTTPS://WWW.SCAPESTUDIO.COM/PROJECTS/BEER-SHEVA-QUARRY-PARK/](https://www.scapestudio.com/projects/beer-sheva-quarry-park/). ACCESSED 25 MAR. 2024.

# KEY WORDS

LANDSCAPE DESIGN  
LANDSCAPE DESIGN COMPETITION  
QUARRY  
REGENERATION  
BIOPHILIC  
ECOSYSTEM  
MARBLE  
LANDSCAPE ARCHITECTURE  
MINING  
QUARRY REHABILITATION  
SOIL STABILIZATION  
WATER MANAGEMENT  
COMMUNITY ENGAGEMENT  
GREEN INFRASTRUCTURE  
ENVIRONMENTAL REMEDIATION  
CLIMATE RESILIENCE  
NORCROSS-WEST MARBLE QUARRY  
DORSET, VERMONT  
VERMONT  
DORSET QUARRY  
ADVENTURE PARK  
RECREATIONAL PARK



# **UNDERSTANDING THE PROJECT**

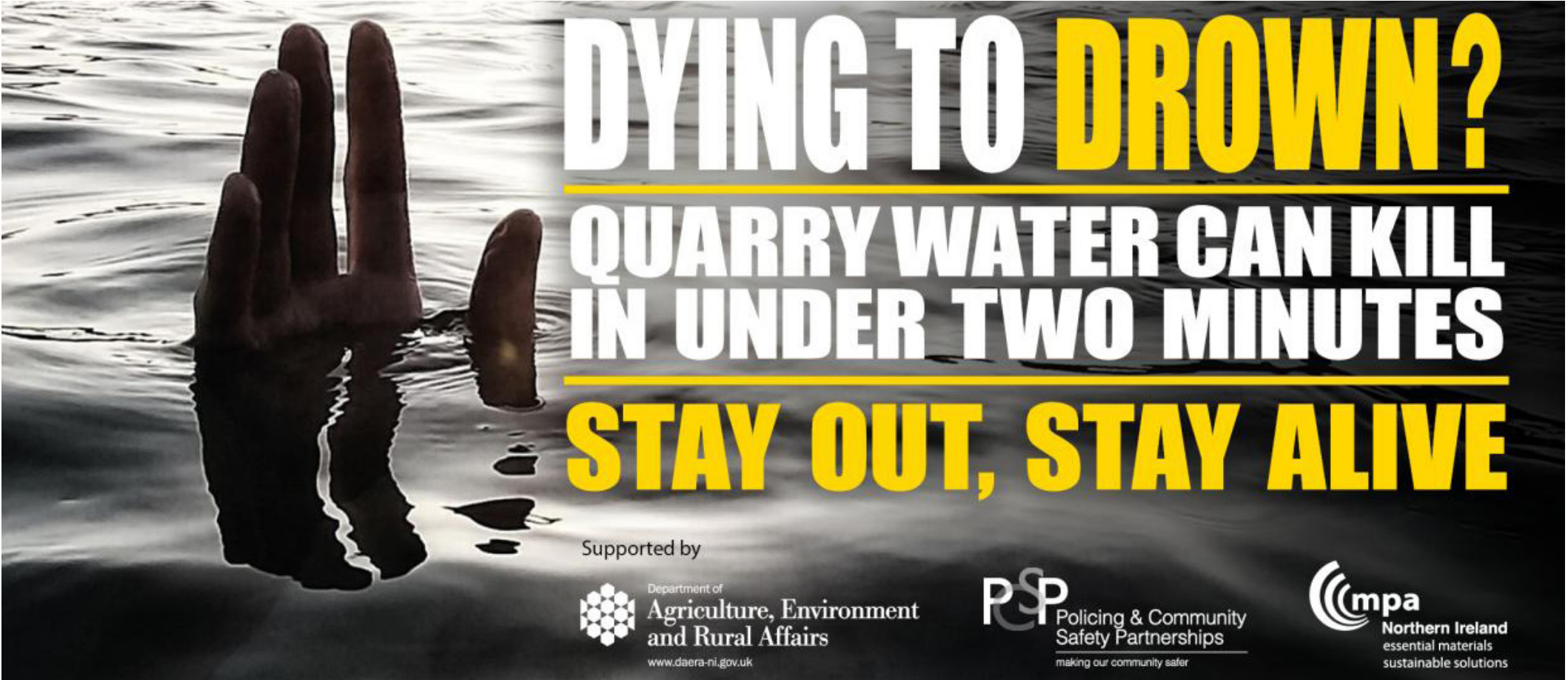
## **PROJECT STATEMENT**

***HOW CAN ABANDONED QUARRIES BE REGENERATED TO  
SERVE A NEW PURPOSE?***

## PROJECT JUSTIFICATION


MANY OF THE QUARRIES OPENED IN THE 1700S UNTIL 1977 WERE LEFT ABANDONED WITH NO PLANS FOR THE FUTURE IN SIGHT. THIS PROJECT ADDRESSES A SOLUTION TO AMENDING A FORMER MARBLE QUARRY LOCATED IN DORSET, VERMONT. PEOPLE HAVE BEEN USING ABANDONED QUARRIES AS SWIMMING HOLES SINCE REALIZING THEY RETAIN WATER, WITH EXACT DOCUMENTATION UNDETERMINED. THIS PRACTICE OFTEN POSES CONCERN FOR SAFETY AS FATALITIES HAVE OCCURRED FROM THE SITES BEING LEFT FILLED WITH EQUIPMENT AND JAGGED EDGES<sup>1</sup>. ASIDE FROM THAT, THESE SITES WHICH WERE ONCE LUSH WITH LIFE, ARE LEFT AS EXPOSED WOUNDS IN THE EARTH. BY REASSESSING THE SITE AFTER YEARS OF USE AND ABANDONEMENT, MY WORK CREATES A DESIGN THAT REINTRODUCES PLANT SPECIES TO HELP THE SITE HEAL AND INVITE LOST WILDLIFE BACK, AS WELL AS MAINTAINING THE HEALTHY RELATIONSHIP THE COMMUNITY ALREADY HAS WITH THE QUARRY.


ABANDONED QUARRY SPACES REMAIN UNDERUTILIZED OR FORGOTTEN ABOUT ENTIRELY IN MOST INSTANCES. ONCE LEFT TO THE WAYSIDE, THEY TAKE RESOURCES AND SPACE AWAY THAT CAN BE USED IN A MULTITUDE OF OTHER WAYS. BY IMPROVING THE SITE CONDITIONS, NEW PLANT MATERIAL CAN THRIVE AND WILDLIFE CAN RETURN TO LIVE, BREED, AND REST IN A PLACE THAT ONCE PROVIDED THEM LITTLE BENEFIT, AND PEOPLE CAN ENJOY A SAFE PLACE TO RELAX, EXPLORE, AND LEARN.




**DYING TO DROWN?**  
**QUARRY WATER CAN KILL  
IN UNDER TWO MINUTES**  
**STAY OUT, STAY ALIVE**

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 **PSP** Policing & Community  
Safety Partnerships  
making our community safer

 **mpa**  
Northern Ireland  
essential materials  
sustainable solutions

(ABOVE) NIDIRECT. (2023, OCTOBER 11). STAYING SAFE AROUND QUARRIES. NIDIRECT. [HTTPS://WWW.NIDIRECT.GOV.UK/ARTICLES/STAYING-SAFE-AROUND-QUARRIES](https://www.nidirect.gov.uk/articles/staying-safe-around-quarries)

1. KING, H. M. (N.D.). ABANDONED MINE & QUARRY ACCIDENTS CLAIM SEVERAL LIVES PER YEAR. GEOLOGY.COM. [HTTPS://GEOLOGY.COM/ARTICLES/ABANDONED-MINES.SHTML](https://geology.com/articles/abandoned-mines.shtml)

# **THE PROPOSAL**

# THE USERS AND CLIENTS

**OVERVIEW:** ADULTS AND CHILDREN (LOCAL AND TOURISTS) WHO ENJOY NATURE, HIKING, AND/OR EXPLORING IN THE DORSET, VT AREA.

**OWNERS:** PRIVATE, RYAN DOWNEY

**STAFF:** A TEAM OF HORTICULTURISTS, A DIRECTOR OF THE PARK, A TEAM OF WEEKLY VOLUNTEERS, AT LEAST TWO TEACHERS FOR EDUCATIONAL GROUPS

**VISITORS:**

CHILDREN, ALL GENDERS, AGES:

- 0-5 – SENSORY EXPLORATION, BONDING, WALKING, CRAWLING, LEARNING
- 5-10 – CLIMBING, WALKING, RUNNING, EXPLORING, LISTENING, SPEAKING, FEELING, CONNECTING
- 11-14 – ADVENTURING, HIKING, SITTING, SOCIALIZING, ENGAGING, TEAM-BUILDING, OVERCOMING, INDEPENDENCE
- 15-18 – ADVENTURING, HIKING, SOCIALIZING, RELAXATING, LEADING, COOPERATING, GUIDING

ADULTS, ALL GENDERS, AGES:

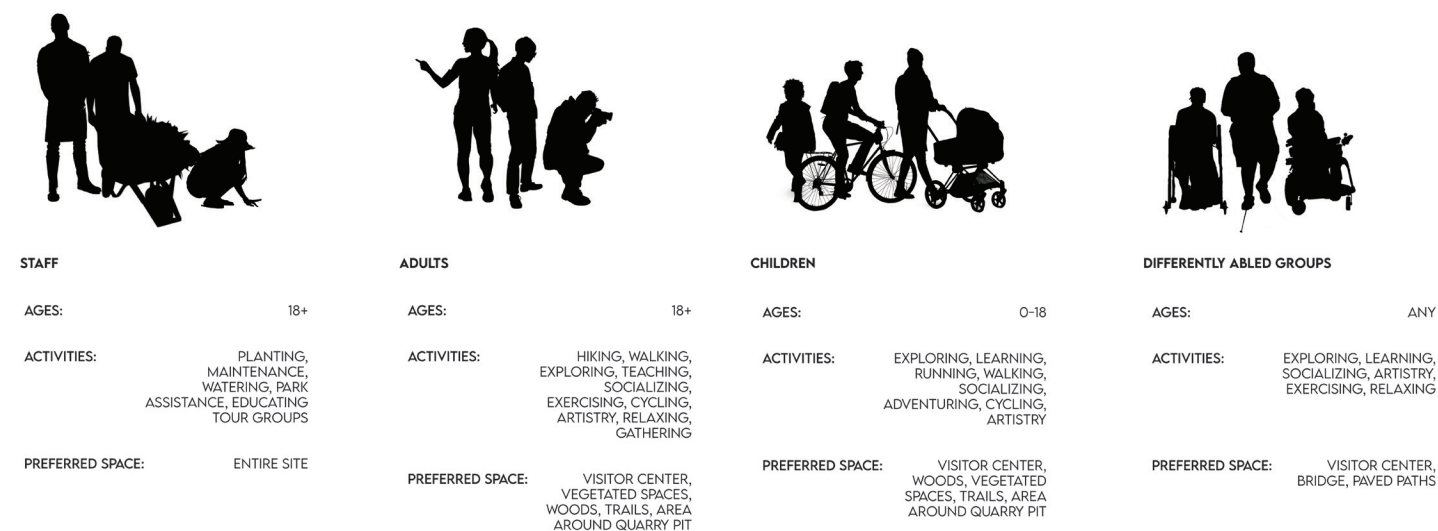
- 19-24 – SOCIALIZING, TEACHING, EXERCISING, NATURE APPRECIATION, HIKING, RELAXING, CONNECTING, VOLUNTEERING
- 25-35 – EXERCISING, GATHERING, BONDING, SELF-CARE, SELF-DISCOVERY, VOLUNTEERING, ADVENTURING
- 36-45 – EXERCISING, BONDING, SOCIALIZING, RELAXING
- 45-59 – WALKING, CYCLING, BONDING, CONNECTING, SOCIALIZING, RELAXING, REFLECTING
- 60+ – GATHERING, SOCIALIZING, WALKING, MINDFULNESS, EXPLORING

**ACCESSIBILITY FOR ALL GROUPS:** HANDRAILS, WIDENED PATHS, STEPS AND RAMPS IN MULTIPLE PLACES, LIGHTS, TEXTURE STRIPS, STONE, WOOD, OR CONCRETE PATHS, SENSORY PLANTINGS AND QUIET AREAS.

**PARKING:** PAVED LOT WITH ACCESSIBLE PARKING SPACES AVAILABLE

**USAGE TIME:** SPRING, SUMMER, FALL, WINTER

**USERS**



# PROJECT ELEMENTS

## PAVED PARKING LOT

TO MAKE ACCESS AND USE OF THE SPACE MORE EFFICIENT AND SAFE, A PAVED LOT AVAILABLE FOR VISITORS

## ENVIRONMENTAL PRESERVATION

FOCUSING ON RESTORATION OF PLANT AND WILDLIFE IN AND AROUND QUARRY SPACES TO PROMOTE GROWTH AND HABITAT HEALTH

**FLORA** - SELECTING NATIVE AND NON-INVASIVE SPECIES TO REPLENISH THE SITE AND FILL THE FOREST

**FAUNA** - RECREATING SUITABLE HABITATS TO ENCOURAGE SPECIES TO MOVE BACK INTO THE AREA AND HAVE A SUCCESSFUL FEED, BREED, AND REST CYCLE

## MARBLE SCULPTURE PARK

IN AN EFFORT TO UTILIZE THE MARBLE BLOCKS LEFT SCATTERED AROUND THE SITE, ARTISTS CAN CREATE SCULPTURES WHICH BOTH BRING NEW LIFE TO THE MARBLE WHILE NOT FORGETTING ITS HISTORICAL SIGNIFICANCE TO THE QUARRY

## GENERAL CIRCULATION

PATHS THROUGHOUT THE SITE FOR VISITORS TO MOVE FREELY AND EXPLORE ALL THAT THE PARK HAS TO OFFER

## HIKING TRAILS

TRAILS THAT INVITE VISITORS TO ENJOY THE NATURE OF THE SITE AND EXPLORE THE SURROUNDING AREA BEFORE HEADING BACK TO THE MAIN SPACE

## IMMERSIVE ROUTES

PATHS THAT LEAD THROUGH A SENSORY EXPERIENCE TO INTERACT WITH PLANT MATTER, NATURAL ELEMENTS, AND MARBLE

## PICNIC AREA

DEDICATED SPACE WITH TABLES AND OPEN SPACES FOR VISITORS TO SIT AND ENJOY A MEAL OR JUST RELAX WHILE STILL ENJOYING THE VIEW OF THE QUARRY

## RIPARIAN AREA

AN AREA WHERE FLORA AND FAUNA CAN THRIVE NEAR THE WATER

## QUARRY PIT BRIDGE

A BRIDGE THAT ALLOWS VISITORS TO SAFELY TAKE IN THE VIEW OF THE MARBLE AND THE SURROUNDING NATURE

## PROTECTED QUARRY VIEWING AREA

ELEVATED OR DANGEROUS SPACES WITH RAILING TO PREVENT ACCIDENT OR INJURY

## BUILT LAND BRIDGE IN PIT

BUILT UP LAND TO ALLOW WILDLIFE AND HUMAN PASSAGE ACROSS THE PIT WITHOUT A LONG JOURNEY ACROSS THE WATER OR AROUND THE TRAILS

## RESTROOM FACILITIES

PUBLIC RESTROOMS AND CHANGING FACILITIES FOR VISITORS TO ACCESS

## LANDSCAPED BEDS

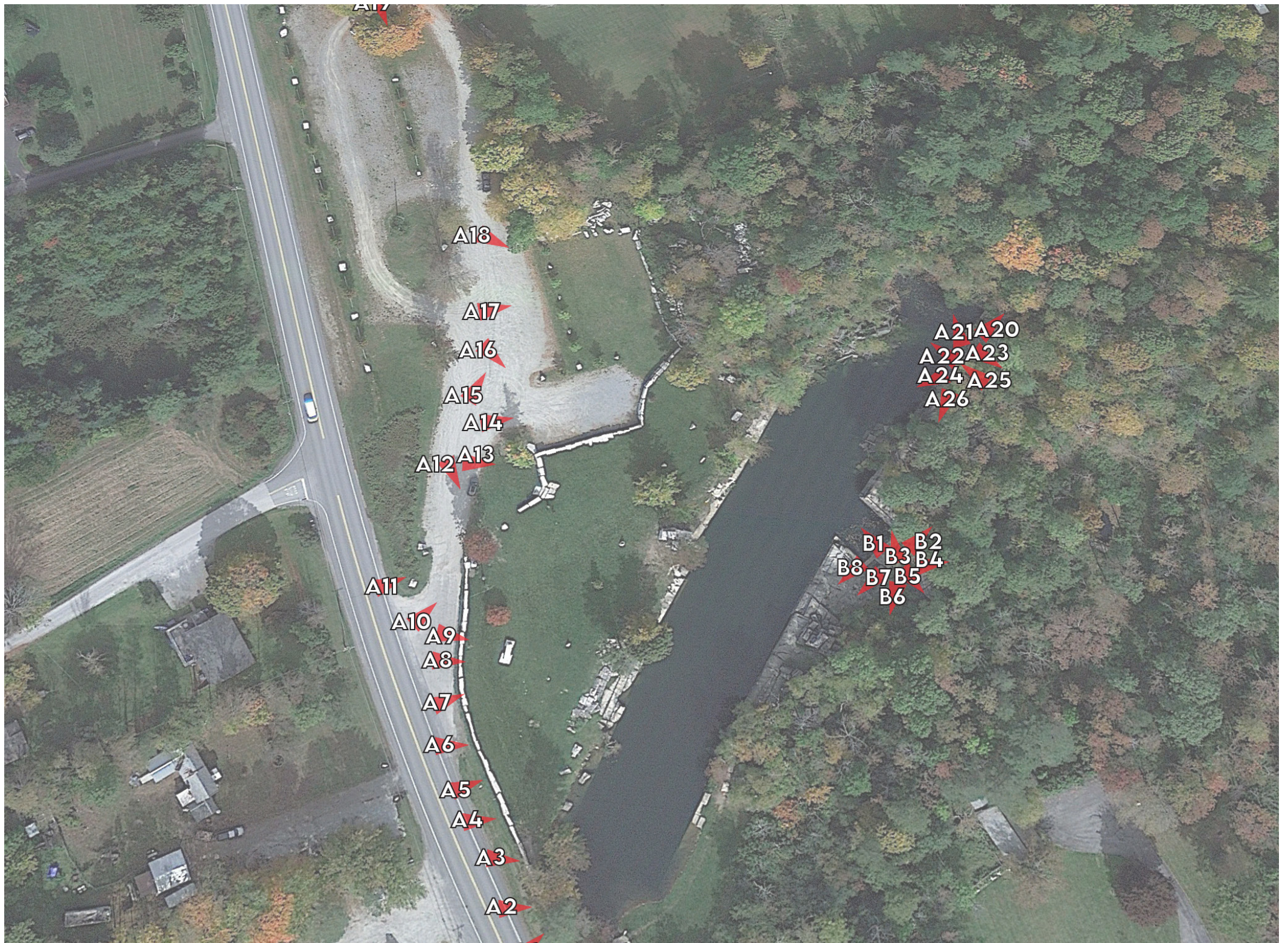
BEDS PLANTED THROUGHOUT THE PARK WITH ANNUALS, PERENNIALS, EDIBLE PLANTS, WOODY SPECIES, AND EPHEMERALS

# **THE SITE**

NORCROSS-WEST MARBLE QUARRY

1778-1830 VT-30, DORSET, VERMONT 05251

# SITE INFORMATION



## NORCROSS-WEST MARBLE QUARRY

GOOGLE EARTH PRO 7.3, (2022) NORCROSS-WEST MARBLE QUARRY 43°14'09.00" N, 73°04'59.49" W, ELEVATION 0 FEET, EYE ALTITUDE ~1200 FEET. [ONLINE].  
AVAILABLE AT: [HTTPS://EARTH.GOOGLE.COM/WEB/@43.23629638,-73.08349171,289.23937554A,322.20752311D,35Y,25.04517263H,26.95952185T,359.99649674R/DATA=CJ4APBI2CIUWEDG5ZTA1ZDG4ZWE2NJCONDM6MHHKMJG2ZJQOZTUWNMI1NMRKKG1OB3JJCM9ZCY1XZXNOGAIGATODCGEW](https://earth.google.com/web/@43.23629638,-73.08349171,289.23937554A,322.20752311D,35Y,25.04517263H,26.95952185T,359.99649674R/DATA=CJ4APBI2CIUWEDG5ZTA1ZDG4ZWE2NJCONDM6MHHKMJG2ZJQOZTUWNMI1NMRKKG1OB3JJCM9ZCY1XZXNOGAIGATODCGEW). [ACCESSED 5 FEBRUARY 2024].

# SITE INFORMATION IMAGES



(ABOVE, A1) GOOGLE EARTH, STREET VIEW, AUGUST 2023, MAIN ROAD VIEW INTO QUARRY.



(ABOVE, A2) GOOGLE EARTH, STREET VIEW, AUGUST 2023, MAIN ROAD VIEW INTO QUARRY.



(ABOVE, A3) GOOGLE EARTH, STREET VIEW, AUGUST 2023, MAIN ROAD VIEW INTO QUARRY.



(ABOVE, A4) GOOGLE EARTH, STREET VIEW, AUGUST 2023, MAIN ROAD VIEW INTO QUARRY.



(ABOVE, A5) GOOGLE EARTH, STREET VIEW, AUGUST 2023, MAIN ROAD VIEW INTO QUARRY.



(ABOVE, A6) GOOGLE EARTH, STREET VIEW, AUGUST 2023, MAIN ROAD VIEW INTO QUARRY.

# SITE INFORMATION IMAGES



(ABOVE, A7) GOOGLE EARTH, STREET VIEW, AUGUST 2023, MAIN ROAD VIEW INTO QUARRY.



(ABOVE, A8) GOOGLE EARTH, STREET VIEW, AUGUST 2023, MAIN ROAD VIEW INTO QUARRY.



(ABOVE, A9) GOOGLE EARTH, STREET VIEW, AUGUST 2023, MAIN ROAD VIEW INTO QUARRY.



(ABOVE, A10) GOOGLE EARTH, STREET VIEW, AUGUST 2023, MAIN ROAD VIEW INTO QUARRY.



(ABOVE, A11) GOOGLE EARTH, STREET VIEW, AUGUST 2023, MAIN ROAD VIEW INTO QUARRY.



(ABOVE, A12) GOOGLE EARTH, STREET VIEW, AUGUST 2023, QUARRY PARKING LOT ROAD.

# SITE INFORMATION IMAGES



(ABOVE, A13) GOOGLE EARTH, STREET VIEW, AUGUST 2023, QUARRY PARKING LOT ROAD.



(ABOVE, A14) GOOGLE EARTH, STREET VIEW, AUGUST 2023, QUARRY PARKING LOT ROAD.



(ABOVE, A15) GOOGLE EARTH, STREET VIEW, AUGUST 2023, QUARRY PARKING LOT ROAD.



(ABOVE, A16) GOOGLE EARTH, STREET VIEW, AUGUST 2023, QUARRY PARKING LOT ROAD.



(ABOVE, A17) GOOGLE EARTH, STREET VIEW, AUGUST 2023, QUARRY PARKING LOT ROAD.



(ABOVE, A18) GOOGLE EARTH, STREET VIEW, AUGUST 2023, QUARRY PARKING LOT ROAD.

# SITE INFORMATION IMAGES



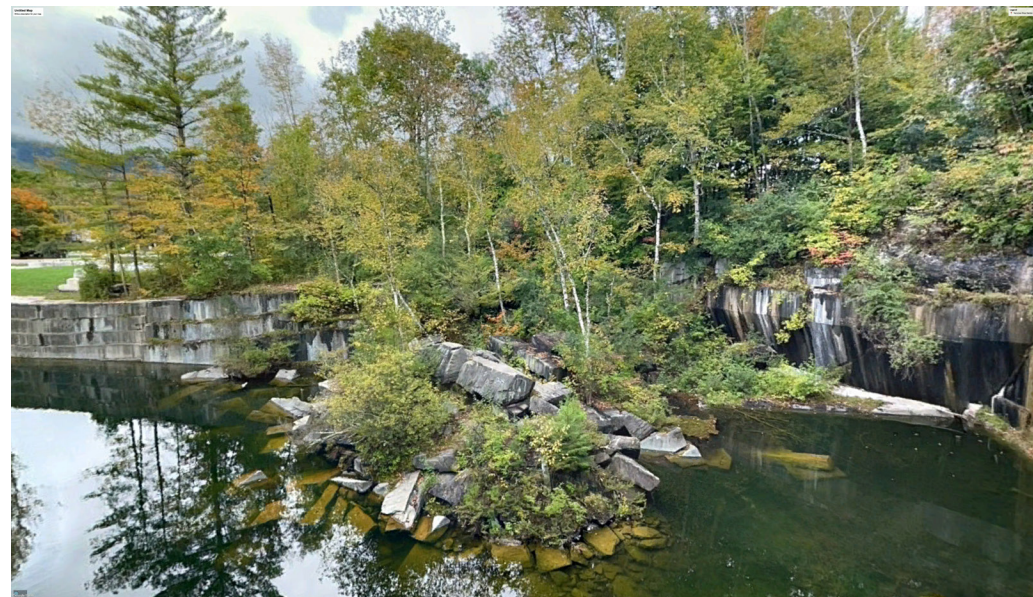
(ABOVE, A19) GOOGLE EARTH, STREET VIEW, AUGUST 2023, QUARRY PARKING LOT ROAD.



(ABOVE, A20) GOOGLE EARTH, STREET VIEW, DAVID BELL, SEPTEMBER 2022, BACK CORNER LEDGE.



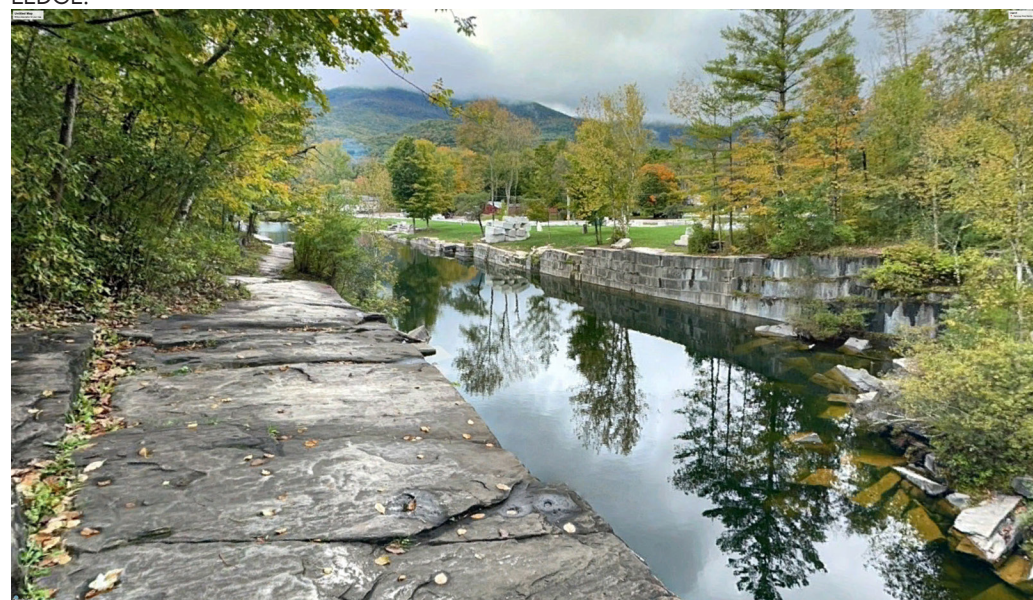
(ABOVE, A21) GOOGLE EARTH, STREET VIEW, DAVID BELL, SEPTEMBER 2022, BACK CORNER LEDGE.



(ABOVE, A22) GOOGLE EARTH, STREET VIEW, DAVID BELL, SEPTEMBER 2022, BACK CORNER LEDGE.



(ABOVE, A23) GOOGLE EARTH, STREET VIEW, DAVID BELL, SEPTEMBER 2022, BACK CORNER LEDGE.



(ABOVE, A24) GOOGLE EARTH, STREET VIEW, DAVID BELL, SEPTEMBER 2022, BACK CORNER LEDGE.

# SITE INFORMATION IMAGES



(ABOVE, A25) GOOGLE EARTH, STREET VIEW, DAVID BELL, SEPTEMBER 2022, BACK CORNER LEDGE.



(ABOVE, A26) GOOGLE EARTH, STREET VIEW, DAVID BELL, SEPTEMBER 2022, BACK CORNER LEDGE.



(ABOVE, B1) GOOGLE EARTH, STREET VIEW, DAVID BELL, SEPTEMBER 2022, CARVED OUT MIDDLE SECTION.



(ABOVE, B2) GOOGLE EARTH, STREET VIEW, DAVID BELL, SEPTEMBER 2022, CARVED OUT MIDDLE SECTION.



(ABOVE, B3) GOOGLE EARTH, STREET VIEW, DAVID BELL, SEPTEMBER 2022, CARVED OUT MIDDLE SECTION.



(ABOVE, B4) GOOGLE EARTH, STREET VIEW, DAVID BELL, SEPTEMBER 2022, CARVED OUT MIDDLE SECTION.

# SITE INFORMATION IMAGES



(ABOVE, B5) GOOGLE EARTH, STREET VIEW, DAVID BELL, SEPTEMBER 2022, CARVED OUT MIDDLE SECTION.



(ABOVE, B6) GOOGLE EARTH, STREET VIEW, DAVID BELL, SEPTEMBER 2022, CARVED OUT MIDDLE SECTION.



(ABOVE, B7) GOOGLE EARTH, STREET VIEW, DAVID BELL, SEPTEMBER 2022, CARVED OUT MIDDLE SECTION.



(ABOVE, B8) GOOGLE EARTH, STREET VIEW, DAVID BELL, SEPTEMBER 2022, CARVED OUT MIDDLE SECTION.

## SITE INFORMATION

NORCROSS-WEST MARBLE QUARRY, COMMONLY REFERRED TO AS THE DORSET QUARRY, LOCATED IN DORSET, VT IS THE OLDEST MARBLE QUARRY IN AMERICA. FIRST OPENING 1785 BY A PROMINENT MINING FIRM CALLED THE NORCROSS BROTHERS COMPANY, THIS QUARRY WAS ONCE THE LEADING MARBLE PRODUCER IN AMERICA, AND ONE OF THE LARGEST IN THE WORLD. THE MARBLE MINED AT THIS SITE WAS REFERRED TO AS “DORSET WHITE” AND HIGHLY SOUGHT AFTER FOR ITS AESTHETIC AND PRESTIGE BEING USED FOR ARCHITECTURAL PROJECTS SUCH AS THE NEW YORK PUBLIC LIBRARY AND TOMBSTONES AMONG OTHER PROJECTS. IT WAS NOT UNTIL 1917 THAT THE QUARRY WOULD SHUT DOWN DUE TO THE DWINDLING DEMAND FOR MARBLE. BY THE 1920S, THE NOW ABANDONED QUARRY WAS FILLED WITH WATER WITH THE HELP OF A NEARBY MOUNTAIN STREAM FEEDING INTO IT.

SINCE THE 1920S, LOCALS AND VISITORS FROM ACROSS THE COUNTRY HAVE ENJOYED SWIMMING IN THE COOL, CLEAR WATER THAT THE QUARRY HOLDS. THOUGH, IT IS EVIDENT THAT AFTER THE ABANDONMENT IN 1917, NATURE HAS ATTEMPTED TO RECLAIM THE SITE AS VINES, WEEDS, TREES, AND ROOTS SEARCH FOR AREAS OF THE QUARRY TO GROW IN. THIS SITE HAS SIGNIFICANT VALUE TO BOTH DORSET AND NATURE AS THEY BOTH PULL THE QUARRY TOWARDS OPPOSITE GOALS. THIS IS WHAT MAKES NORCROSS-WEST MARBLE QUARRY A CANDIDATE FOR SUPPORT THROUGH REGENERATION AND COMMUNITY BUILDING.



# INVENTORY AND ANALYSIS

## INVENTORY:

THE QUARRY FEATURES WALLS OF VARYING HEIGHTS OF MARBLE SHEETS, LEFT AS THEY WERE WHEN MINING OPERATIONS HALTED IN 1917. THERE ARE LARGE MARBLE BLOCKS SCATTERED AROUND SITE, SURROUNDING NATURALIZED WOODLOT ON TWO SIDES, AND A LIGHT SCREENING OF TREES ON THE ROAD FACING SIDE. NEW PLANTINGS ON THE OPEN PARKING LOT SIDE, TREES APPEAR DIVERSE, WITH INVASIVE SPECIES IN WOODS. LARGE TREES KEEP THE SITE SHADED, BUT SUN HITS CENTER OF QUARRY AT PEAK, THE ENTIRE QUARRY IS FLOODED.

THE PARKING LOT IS GRAVEL WITH A SMALL TENT SET UP FOR DONATIONS AND SCANNING ENTRY PASSES. THE LOT IS SMALL AND LOOPS AROUND, AND THERE IS A NOTICEABLE SLOPE FROM THE LOT INTO THE QUARRY.

## ANALYSIS:

THE MARBLE WALLS PROVIDE AESTHETIC AND HISTORICAL BALANCE TO THE SITE, LARGE MARBLE BLOCKS CAN BE USED IN DESIGN, BUT SHOULD NOT BE LEFT SCATTERED AS IT CREATES HAZARD. WOODLOT PROVIDES SHADE AND CREATES VARIOUS CLIMATES THROUGHOUT THE SITE, THE DIVERSITY OF SPECIES EXISTING HELPS AVOID A MONOCULTURE IN CASES OF PEST MANAGEMENT AND OUTBREAK. SMALLER TREES ARE A REMINDER TO BE MINDFUL OF THIS SITE THAT WAS ONCE HEAVILY COMPACTED FROM MINING MACHINERY, WHILE THE ROAD SCREENING MAY NEED TO BE ENHANCED TO NOT HIDE THE SITE BUT PROVIDE NOISE SUPPRESSION FROM THE ROAD TRAFFIC. SUN HEATS UP WATER FOR A FEW HOURS, WHILE TREES KEEP IT COOLED MOST OF THE DAY. HEIGHT OF WALLS AND DEPTH OF WATER DETERMINE SPECIFIC SAFETY MEASURES THAT NEED TO BE IMPLEMENTED.

GRAVEL LOT IS NOT COMPACT ENOUGH TO BE ACCESSIBLE FOR ALL TYPES OF PEOPLE. IT IS ALSO TOO SMALL TO ACCOMMODATE LARGE NUMBERS OF VISITORS AND LEAVES PEOPLE PARKING IN BUSINESS LOTS OR ON THE SIDE OF THE ROAD. THE SLOPE ALLOWS RAINFALL TO DRAIN INTO QUARRY ALONG WITH ANY CHEMICAL TREATMENTS ON SOIL OR USED IN THE LANDSCAPE.

# QUANTITATIVE ASSESSMENT

ROUGHLY 268,866 SQ FT

OWNED BY: THE DORSET MARBLE QUARRY LLC, C/O RYAN DOWNEY

SOIL TYPES AND SLOPES CONSIST OF:

COPAKE GRAVELLY FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES

AMENIA SILT LOAM, 3 TO 8 PERCENT SLOPES, VERY STONY

NELLIS SILT LOAM, 3 TO 8 PERCENT SLOPES

NELLIS SILT LOAM, 8 TO 15 PERCENT SLOPES

PITS-DUMPS COMPLEX

MASSENA SILT LOAM, 0 TO 3 PERCENT SLOPES, VERY STONY

GALWAY-FARMINGTON COMPLEX, 15 TO 25 PERCENT SLOPES, VERY ROCKY

SOIL HEALTH: UNKNOWN, APPEARS NEW TREES HAVE BEEN SUCCESSFUL

SITE LIKELY HAS COMPACTION ISSUES FROM QUARRYING, WOODLOT MAY BE MOSTLY UNTOUCHED IN RECENT YEARS, EVIDENT BY PLANT LIFE GROWING OVER MARBLE SLABS

LAND IS VALUED AT AROUND \$40,000<sup>2</sup>

RESIDENTIAL CODE T - TOWN RESIDENT. OWNER WHO LIVES IN THE TOWN IN WHICH THE PROPERTY IS LOCATED

SITE RUNS RISK OF MORE FATALITIES AND INJURIES WITH UNSAFE CONDITIONS AS IS

WALL HEIGHTS RANGE FROM 4 FEET TO OVER 30 FEET WITH 60 FOOT DEPTHS IN THE WATER

WATER MOVES INTO QUARRY THROUGH RAINFALL AND FROM A NEARBY MOUNTAIN SPRING, LIKELY CONTAMINATED ONCE IMPACTED BY QUARRY MINERALS SUCH AS MARBLE DUST AND CALCIUM CARBONATE.

# QUALITATIVE ASSESSMENT

SLOPED IN AREAS, QUARRY SHAPE IS RECTANGULAR WITH HIGH WALLS THROUGHOUT

QUARRY PIT FLOODED, APPROXIMATELY 60 FEET DEEP IN AREAS

QUAINT RESIDENTIAL AREA

TWO SIDES OF THE PROPERTY ARE HEAVILY VEGETATED

UNSURE OF AIR QUALITY

QUARRY SHARES A SIDE WITH STATE ROUTE 30, LIKELY MODERATE NOISE FROM THIS ROAD

QUARRY IS HISTORICALLY SIGNIFICANT TO THE COUNTY AND STATE AS IT IS THE OLDEST MARBLE QUARRY IN AMERICA

DORSET IS KNOWN FOR HISTORICAL RESIDENTIAL PROPERTIES

QUARRY WAS CONSIDERED A HIDDEN GEM BY LOCALS AND IS NOW A POPULAR SUMMER DESTINATION FOR SWIMMING AND ATTRACTS VISITORS FROM NEIGHBORING CITIES AND STATES

IN 2021, THE POPULATION IN DORSET WAS 470, 100% OF THE POPULATION IS CAUCASIAN, MEDIAN HOUSEHOLD INCOME OF \$91,945, AND 52.7 WAS THE MEDIAN AGE RANGE<sup>3</sup>

MOSTLY PEOPLE WHO ARE EMPLOYED IN MANUFACTURING BUSINESS

A GRAVEL PARKING LOT IS USED FOR VISITORS TO PARK FOR THE DAY, BUT IT IS SMALL AND FILLS UP QUICKLY IN PEAK SEASON

SITE IS ACCESSED BY CAR, UNLIKELY SOMEONE WOULD BICYCLE THERE UNLESS THEY LIVE NEARBY

NOT CURRENTLY ACCESSIBLE TO THOSE WHO ARE DIFFERENTLY ABLED OR ADA COMPLIANT

LOCAL GROCERY STORES AND RESTAURANTS NEARBY, ENCOURAGED TO STOP IN AND GRAB FOOD FOR PICNICS AT THE QUARRY

LARGE MARBLE SLABS SCATTERED THROUGHOUT SITE WITH LITTLE TO NO PURPOSE OTHER THAN HISTORICAL VALUE AND ACTING AS A BARRICADE IN AREAS

3. "DORSET, VT - CENSUS DATA." DATA USA, DATAUSA.IO/PROFILE/GEO/DORSET-VT#DEMOGRAPHICS. ACCESSED 8 FEB. 2024.

# SITE SUMMARY

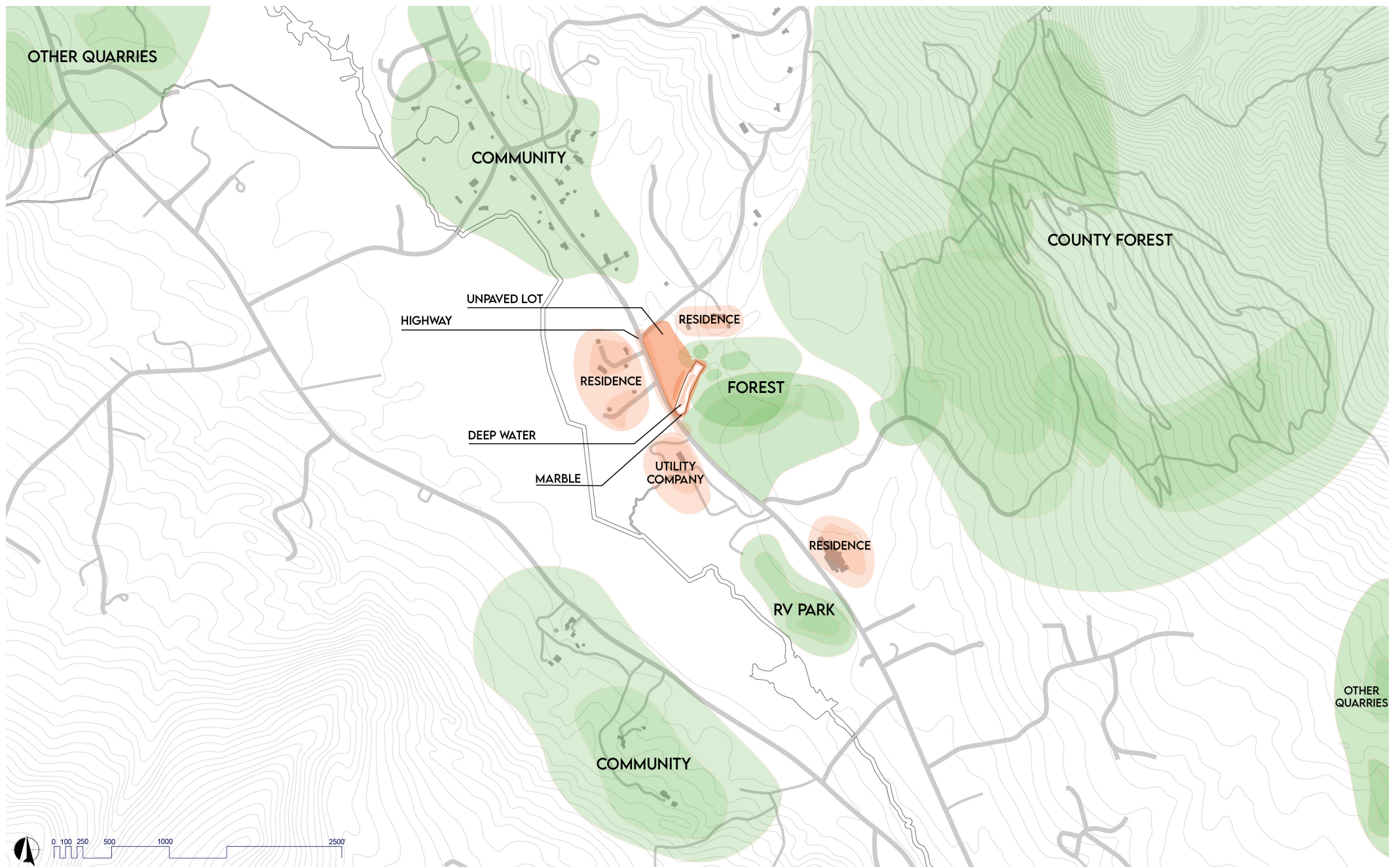


DIAGRAM CREATED BY JASMINE ASKREN, 2024.

DUE TO THE CONDITIONS OF THE SITE, AND THE LONG HISTORY AND ATTRACTION PEOPLE HAVE TO EXPLORING THESE SITES, IT IS EVIDENT THAT THE NORCROSS-WEST MARBLE QUARRY IS A GREAT CANDIDATE FOR A REGENERATIVE DESIGN. IT IS HIGHLY POPULARIZED AS A SUMMER DESTINATION YET DOESN'T HAVE SAFETY OR ACCESSIBILITY FEATURES IN PLACE. WHILE THE SOIL MAY BE COMPACTED FROM THE ACT OF QUARRYING, THE SITE IS COMPRISED OF MOSTLY LOAM MAKING IT IDEAL FOR A GREAT RANGE OF PLANT SPECIES TO GROW.

THIS SITE HAS CHARMING MARBLE EXPOSURE THROUGHOUT, GREEN AND BLUE HUED WATERS, AND DIVERSE NATURALIZED PLANTINGS NEARBY. AIDING IN ITS STRENGTHS TO MAKE IT ACCESSIBLE FOR MORE GROUPS, SAFER FOR VISITORS, AND HELPING THE PLANT LIFE RECLAIM THE SITE. THESE ACTIONS WILL HELP THE SITE HEAL THE WOUND LEFT FROM QUARRYING IN THE 1700S WHILE ENTICING PEOPLE TO SHARE THIS LOCATION IN A WAY THAT IT AND THE COMMUNITY HAVE DESERVED FOR SO LONG.

# **CASE STUDIES**

## CASE STUDY ONE

THE ARZO QUARRIES DATE BACK TO THE 1300S, PROVIDING MARBLE THROUGHOUT EUROPE BUT ONLY CLOSING IN 2009. THE SITE, WHICH CARRIED SIGNIFICANT HISTORICAL AND SOCIAL VALUE IN SWITZERLAND, WAS PURCHASED AGAIN IN 2011 WITH HOPES TO REOPEN THE QUARRY. AFTER CONDUCTING RESEARCH AND GAUGING INTEREST, IT WAS DECIDED BY ENTE REGIONALE SVILUPPO MENDRISIOTTO E BASSO CERESIO, THE REGIONAL DEVELOPMENT INSTITUTE FOR THE MENDRISIOTTO AND BASSO CERESIO DISTRICTS TO INSTEAD REHABILITATE THE SPACE AND UTILIZE IT TO ITS FULL POTENTIAL.

ENRICO SASSI ARCHITETTO BEGAN WORKING ON A DESIGN FOCUSING ON 3 MAIN FEATURES: AND EDUCATION TRAIL, A NATURAL AMPHITHEATER, AND A QUARRY WORKSHOP. THE EDUCATION TRAIL LEADS VISITOR ALONG PATHS TO THE ANCIENT QUARRIES, WITH PATHS TO CAVES THAT GIVE A GLIMPSE INTO THE TECHNIQUES AND STONES FOUND IN QUARRYING. AN EXISTING BUILDING ON THE SITE WAS TURNED INTO PEDESTRIAN AMENITIES THAT INCLUDING MARBLE FEATURES THROUGHOUT TO TIE BACK INTO THE QUARRY. THE NATURAL AMPHITHEATER HOLDS SIGNIFICANT GEOLOGICAL, PLANETOLOGICAL, AND FLORA AND FAUNA SIGNIFICANCE. THEY CREATED AN ORGANIZED SPACE THAT WAS ALSO ACCESSIBLE AND SHOWCASING MORE REUSED MARBLE BLOCK IN THIS AREA. THE GOAL OF MAKING THIS SITE FEEL NATURAL SHINES THROUGH IN THIS SPACE AS YOU LOOK AROUND AND NOTICE A MULTITUDE OF BIOTOPES THAT WERE CREATED FOR THE LOCAL FLORA AND FAUNA THAT HAD ONCE BEEN PUSHED OUT BY QUARRYING. LASTLY, THE WORKSHOP REUSES THE FORMER PRODUCTION FACILITY AS A MAIN BUILDING WITH A CIRCULATION BUILDING ATTACHMENT. ONCE AGAIN, THIS SPACE REUSES MARBLE BLOCKS AND IMPLEMENTS MARBLE FEATURES IN THE NEW DESIGN LIKE THE ROAD CREATED FROM MARBLE BLOCKS LEADING TO THE WORKSHOP AREAS.

OVERALL, THIS PROJECT CREATED AN EXPLORATORY SITE WHILE ACKNOWLEDGING THE HISTORICAL VALUE OF THE SITE THROUGHOUT EACH NEW ELEMENT. THEY CREATED A SENSE OF RESTORATION IN THE AMPHITHEATER, BUT IT LEAVES YOU WONDERING IF THAT ALONE WILL BE ENOUGH AS THE REST OF THE SITE REMAINS INDUSTRIAL. THE ATTENTION TO STRATEGICALLY DESIGNING WITH MARBLE IN EACH BUILDING WHILE REUSING THE BUILDING AS APPROPRIATE IS WELL DONE AS A HISTORICAL AND CULTURAL SIGNIFICANCE TO THE SITE.

(TOP) AMPITHEATER CREATED WITH REMAINING MARBLE BLOCKS. MARCELO VILLADA ORTIZ (N.D.)

(MIDDLE) ONE OF THE PATHS CREATED TO LEAD VISITORS FROM ONE FEATURE TO ANOTHER IN THE REDESIGN. ALBERTO CANEPA (N.D.)

(BOTTOM) ONE OF THE FORMER PRODUCTION FACILITIES. FILIPPO SIMONETTI (N.D.)



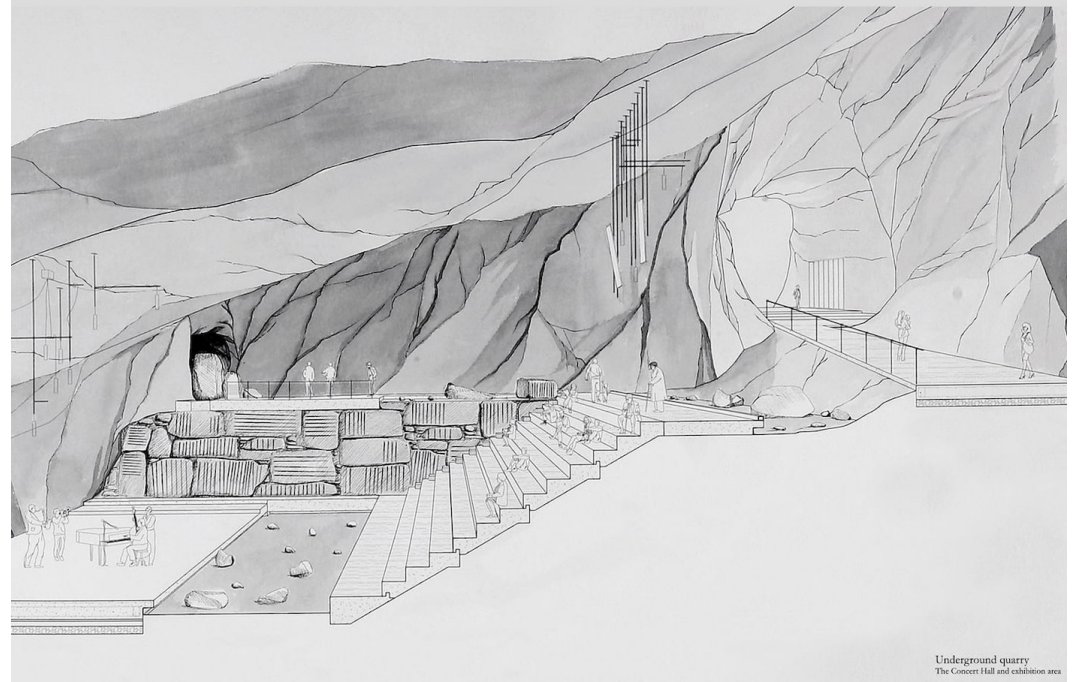
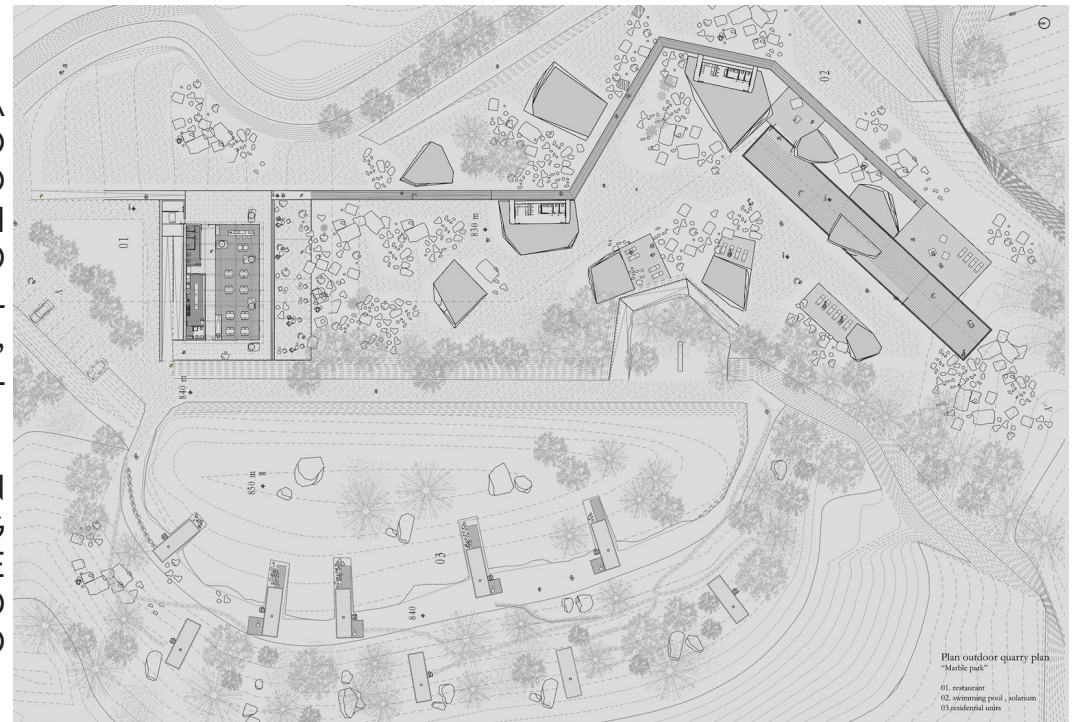
## CASE STUDY TWO

IN AROUND 2021, AN EFFORT TO RESTORE A LANDSCAPE FROM A QUARRIED AND PLANNED QUARRY SITE, POLITENICO OF MILANO SAW POTENTIAL IN INVESTING IN THE SAN GIOVANNI BIANCO QUARRIES. ONE OF THESE IS AN UNDERGROUND CAVE, WHICH HAD BEEN QUARRIED, AND THE OTHER WAS OUTSIDE OF IT AND HAD BEEN MAPPED OUT, BUT NOT YET EXCAVATED. THE GOAL THEY SET OUT TO ACHIEVE WAS A LOW IMPACT INTERVENTION, CREATING NEW ELEMENTS, ENHANCING CURRENT NATURAL FEATURES, AND PROMOTING TOURISM.

FOR THE UNDERGROUND QUARRY, THEY SET OUT TO DESIGN A CONCERT HALL, NOTING TWO OF THE CHALLENGES BEING LIGHTING AND SOUND IN THE VENUE WHILE EMBRACING THE SITE'S QUARRIED DESIGN. JUST OUTSIDE THE CAVE THEY WANTED TO IMPLEMENT LABORATORIES FOR RESEARCH ON THE QUARRIED STONES.

THE OUTER QUARRY, THEY CREATED A DESIGN TO CREATE A MARBLE PARK WITH A THERMAL POOL, RESTAURANTS, AND A HOTEL BUILT ALONG THE WOODED MOUNTAIN. THIS SECTION OF THE SITE HAD MINOR DEVELOPMENT AS QUARRYING HAD NOT YET BEGUN BUT THE PLAN TO DO SO WAS SET IN PLACE WITH EQUIPMENT AND MATERIALS ALREADY NEARBY FROM EXCAVATING THE CAVE SITE.

THIS PROJECT TAKES A FASCINATING CAVE SITE AND BEGINS ASSESSING HOW TO SAFELY UTILIZE IT, BUT NEITHER INDOOR NOR OUTDOOR SITE PLACES A FOCUS ON LANDSCAPE RESTORATION, WHICH WAS A GOAL OF THEIRS. THE PROMOTION OF TOURISM AND REUSE OF THE SITE IS WELL IMPLEMENTED AND A SUCCESSFUL IDEA, BUT THE SHORTCOMINGS ARISE IN THE LACK OF ECOLOGICAL FUNCTION THROUGHOUT THE FORMER QUARRY.



(TOP) SITE PLAN OF OUTDOOR QUARRY MARBLE PARK. MICHELE MAZZOLENI 2021.

(MIDDLE) INSIDE ONE OF THE CAVES OF THE UNDERGROUND QUARRY. MICHELE MAZZOLENI 2021.

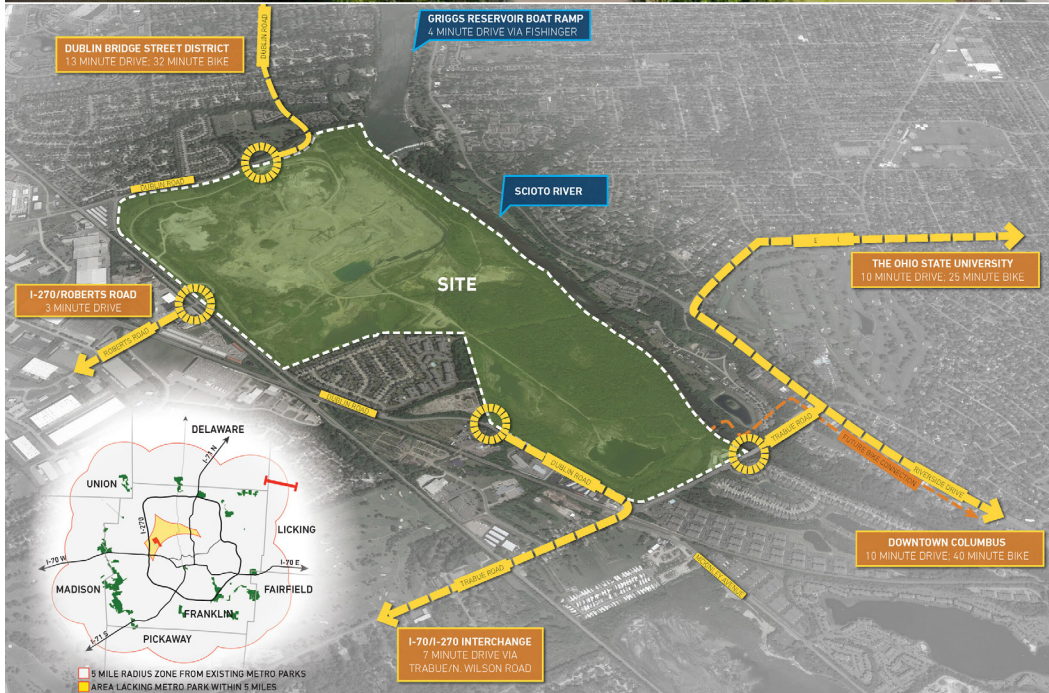
(BOTTOM) UNDERGROUND CONCERT HALL DESIGN IN MARBLE CAVE. MICHELE MAZZOLENI 2021.

## CASE STUDY THREE

BEFORE 2021, IN COLUMBUS, OHIO, MKSK BEGAN DESIGN PROPOSALS FOR AN ADVENTURE RECREATION PARK OVER A FORMER QUARRY SITE. THIS QUARRY WAS ONCE USED AS A MAJOR LIMESTONE QUARRY, SUPPLYING PRODUCT ACROSS CENTRAL OHIO FOR BUILDINGS AND ROADS. NOW, ONLY USED AS A LOW-IMPACT QUARRY IN A SMALL PORTION OF THE 607-ACRE SITE, THE COLUMBUS AND FRANKLIN METRO PARK BOARD HAS BEGUN LOOKING FOR WAYS TO RECLAIM THE SPACE.

THE PROPOSED REUSE OF THE SITE CREATES A PLETHORA OF PATHS FOR PEDESTRIAN AND CYCLISTS, GREENWAYS, AND TIES INTO THE HIGHWAY WHILE ALSO MOVING ALONG THE SCIOTO RIVER FOR 223 ACRES. THE IDEA IS TO PLACE BOULDERS OF ALL SIZES LEFT FROM THE SITE AROUND A LUSHLY PLANTED METRO PARK. THE PARK ITSELF WILL FEATURE ACTIVITIES FROM WALKING, HIKING, BIKING, CANOEING, GATHERING POINTS, ENTERTAINMENTS SHELTERS, AND EVEN WINTER SPORTS AREAS FOR ALL SEASON INTEREST.

THIS PROJECT UTILIZES A MASSIVE SPACE TO ITS FULL POTENTIAL WITH MINIMAL DISRUPTION TO THE COMMUNITY DUE TO THE FOCUS ON PROVIDING THEM AN EASILY ACCESSIBLE SPACE TO USE YEAR-ROUND IN PLACE OF AN EXPLOITED QUARRY SITE. THIS PARK, IF SUCCESSFUL IN ITS ASSESSMENT OF THE SITE, WOULD RESTORE OVER 500 ACRES OF LOST PLANT MATERIAL AND GREATLY IMPROVE THE QUALITY OF LIFE BY PROVIDING EDUCATIONAL OUTREACH OPPORTUNITIES, PUBLIC ACCESSIBLE GREEN SPACE, AND WALKING PATHS FOR THOSE WHO WALK FROM ONE LOCATION TO THE NEXT FOR THE 350,000 RESIDENTS LIVING WITHIN 5 MILES OF IT.



(TOP) RENDERED PERSPECTIVE OF GREENWAY SPACE SHOWING HOW PEDESTRIAN TRAFFIC IS IMPROVED THROUGH THIS DESIGN. MKSK, 2021.

(MIDDLE) CIRCULATION SHOWN THROUGH A CONCEPT DIAGRAM OF HOW THE SITE CONNECTS TO THE SURROUNDING CITY. MKSK, 2021.

(BOTTOM) SPILLWAY AND PEDESTRIAN BRIDGE NEAR SCIOTO RIVER ADDING ELEMENTS OF ADVENTURE TO THE PARK. MKSK, 2021.

## LITERATURE REVIEW

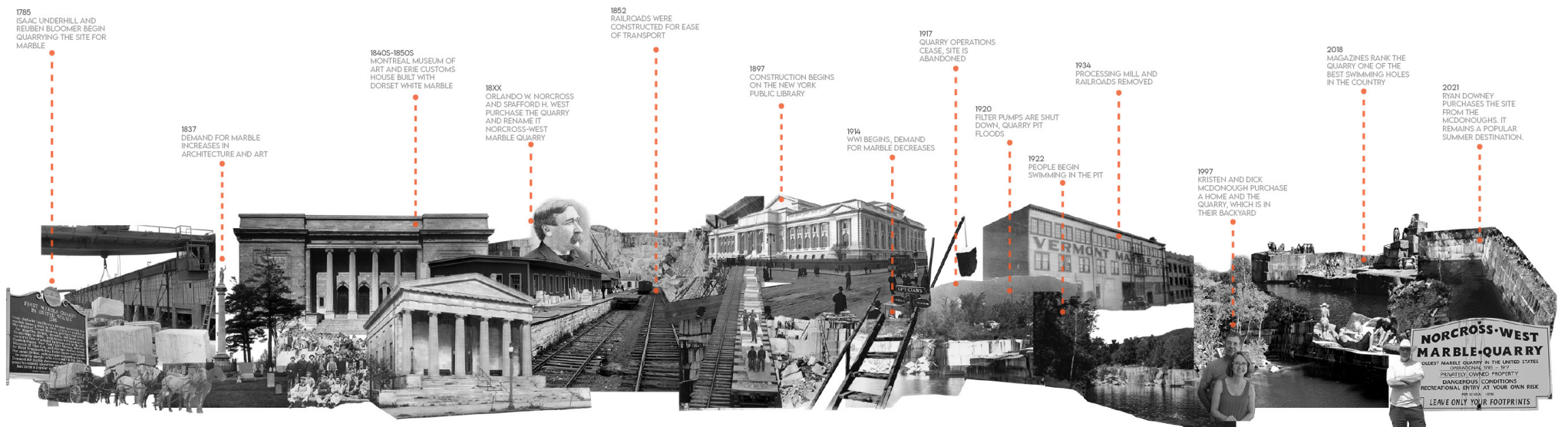
QUARRY LANDSCAPE REGENERATION RESEARCH HAS BEEN CONDUCTED FOR YEARS IN AN EFFORT TO DECIDE WHAT COMES NEXT FOR THE VACANT SPACES. WHILE UNDERSTANDING QUARRYING AS A MAJOR KEY COMPONENT IN INFRASTRUCTURE, IT IS ALSO WORTH INVESTING IN TURNING THEM INTO OTHER VALUABLE ASSETS ONCE THEY HAVE BEEN DEPLETED OR DEEMED TO HAVE NO FURTHER QUARRY VALUE.

PEOPLE HAVE CONSIDERED THEM VALUABLE TO ANSWERING THE FRESH FOOD CRISIS IN URBAN ENVIRONMENTS. TURNING THESE SITES INTO FOOD SOURCES IS WHAT RESEARCHER TEODORO SEMERARO, ET. AL. SUGGESTS AS POPULATIONS AND FOOD DESERTS RISE FROM URBANIZATION. THIS NOT ONLY HELPS COMMUNITIES ACCESS FRESH GROWN PRODUCE, BUT GIVES THE UNUSED QUARRY SITES A PURPOSE RATHER THAN SITTING VACANT. DOING THIS ALSO BENEFITS LOCAL INSECTS, FLORA, AND FAUNA HELPING THESE POPULATIONS RETURN AND MULTIPLE WITH FOOD AND HABITAT ACCESS.

ANOTHER RESEARCHER OUT OF THE UNIVERSITY OF LISBON, PORTUGAL, KATIA TALENTO (ET. AL.) SUGGESTS CURRENTLY OPERABLE MARBLE QUARRIES WASTE MORE MARBLE THAN THEY ACTUALLY CONSIDER MARKETABLE, MAKING THIS A MORE HARM THAN ECONOMIC BENEFIT SITUATION FOR QUARRIES. SHE AND HER TEAM HAVE BEEN INVESTING NEW USES OF THESE SITES TO INTEGRATE THEM AS IS INTO THE NATURAL LANDSCAPE AND PROMOTE ECOLOGICAL DIVERSITY AND SUSTAINABILITY AS DRIVE FOR MARBLE HAS SIGNIFICANTLY PLUMMETED ACROSS THE GLOBE.

WHILE THERE IS NO DEFINITE ANSWER AS TO WHAT SHOULD BE DONE WITH THESE ABANDONED MARBLE QUARRIES, IT IS WORTH INVESTIGATING NEW WAYS TO PURSUE THEM RATHER THAN ALLOWING THEM TO SIT EMPTY FOR CENTURIES, OR PROVIDE DANGEROUS BUT TEMPTING TOURIST DESTINATION FOR THE PUBLIC.

# HISTORICAL CONTEXT



## CASE STUDY SUMMARY

AS SHOWN IN THESE CASE STUDIES, THERE ARE NUMEROUS TYPES OF QUARRIES ACROSS THE GLOBE WHICH HAVE BEEN LEFT ABANDONED BY COMPANIES DATING BACK CENTURIES OR EVEN RECENTLY. THESE QUARRIES PROVIDED MATERIALS PRECIOUS TO ART AND ARCHITECTURE THAT HAVE HELPED CRAFT OUR CITIES AND COUNTRIES INTO WHAT WE KNOW THEM AS TODAY, BUT THEY ARE LEFT AS A DISRUPTIVE SCAR IN THE LANDSCAPE. FOR YEARS THEY ARE LEFT TO FLOOD OR SIT EMPTY WITH NO KNOWN PURPOSE, THESE CASE STUDIES SHOW THAT NO MATTER HOW SMALL OR LARGE A SITE IS, THESE QUARRIES CAN BE REIMAGINED AS GREEN SPACES WHILE NOT LOSING SIGHT OF WHAT THEY ONCE WERE.

IN MY DESIGN OF THE NORCROSS-WEST MARBLE QUARRY, I INTEND TO SHOWCASE THE BEAUTY OF THE SITE WHILE ENHANCING THE ELEMENTS IT WAS LEFT WITH IN 1917, MUCH LIKE THESE STUDIES HAVE ALL SHOWN TO DO. WHILE MAKING A SITE SAFE AND ACCESSIBLE FOR A WIDE VARIETY OF PEOPLE TO USE AND ENJOY, THIS QUARRY CAN SERVE A PURPOSE IN THE ECOSYSTEM AND COMMUNITY AGAIN.



ARTISTS SCULPTING MARBLE FOR THE PARK. CREATED BY JASMINE ASKREN, 2024.

**THE SOLUTION**

## SOLUTION

ABANDONED QUARRIES CAN BE REGENERATED BY CREATING HABITATS, EDUCATIONAL OPPORTUNITIES, AND EMBRACING THE HISTORY OF THE SITE. THROUGH CREATING HABITATS FOR NATIVE WILDLIFE SPECIES WE ARE ABLE TO SEE NEW LIFE INTRODUCED AND RESTORED THROUGHOUT THE FORMER QUARRY SITE.

HABITATS ALLOW WILDLIFE TO HAVE SAFE PLACES TO NEST, FEED, AND BREED WITHOUT WORRY OF DISRUPTION FROM SIGNIFICANT HUMAN INTERVENTION. SIMILARLY, THE REINTRODUCTION OF SIGNIFICANT PLANT LIFE ALLOWS THE SITE TO REJUVENATE AND HEAL FROM THE YEARS OF LEISURE USE ON TOP OF THE YEARS OF QUARRYING THAT HISTORICALLY TOOK PLACE. WHILE SIGNIFICANT HUMAN INTERVENTION IS TO BLAME FOR THE STATE OF THE QUARRY, HUMANITY SHOULD NOT BE DEPRIVED OF THE OPPORTUNITY TO EXPLORE AND EXPERIENCE THE UNIQUENESS OF THE FORMER QUARRY SITE. THROUGH DESIGNING A SAFE SPACE FOR EVERYONE TO EXPLORE AND ENJOY, IT ENCOURAGES VISITORS TO NOT SHY AWAY OR FEEL AFRAID BUT REMINDS THEM THAT THERE ARE SAFETY MEASURES IN PLACE TO PROTECT THEM.



EDUCATIONAL OPPORTUNITIES FOR ALL AGES. CREATED BY JASMINE ASKREN, 2024.

# PROJECT GOALS

## THEORETICAL

**ECOLOGICAL RESTORATION** - RESTORING THE ABANDONED QUARRY SITE TO SUPPORT AND FUNCTION IN THE LOCAL ECOSYSTEM THROUGH BIODIVERSITY, CONNECTIVITY, AND RESILIENCE EFFORTS

**SUSTAINABLE RESOURCE MANAGEMENT** - MANAGING NATURAL RESOURCES IN A SUSTAINABLE MANNER IN AN EFFORT TO MINIMIZE ENVIRONMENTAL DEGRADATION

**HISTORICAL PRESERVATION** - MAINTAINING THE EXISTING UNDERSTANDING AND REMEMBRANCE OF THE QUARRY AND ITS IMPORTANCE TO HELPING BUILD SIGNIFICANT ARCHITECTURAL PROJECTS ACROSS THE COUNTRY

## PHYSICAL

**LAND RECLAMATION** - TRANSFORMING AREAS OF THE QUARRY THAT WERE LEFT DERELICT TO REFORESTED AND PLANTED AREAS OR SPACES WITH A DEFINED PURPOSE

**WATER QUALITY IMPROVEMENT** - FOCUSING ON IMPROVING THE QUALITY OF THE WATER AS IT EXISTS IN AND EXITS THE QUARRY TO PREVENT POLLUTION AS IT MOVES OUTSIDE OF THE PIT

**SOIL REGENERATION** - IMPLEMENTING MEASURES TO ENSURE SOIL HEALTH AND IMPROVE THE QUALITY AFTER YEARS OF COMPACTION AND DEGRADATION

**EROSION CONTROL** - BUILT UP MEASURES IN PLACE TO PREVENT THE SOIL FROM SLIPPING INTO THE PIT AND POTENTIALLY CAUSING DANGER FOR VISITORS

**HABITAT CREATION** - ENSURING HABITATS ARE IN PLACE FOR WILDLIFE WHO SEEK SHELTER NEAR THE SITE TO ENCOURAGE BIODIVERSITY THROUGHOUT

**BIODIVERSITY** - WELCOMING NUMEROUS SPECIES OF PLANTS, ANIMALS, AND INSECTS BACK TO THE SITE TO COEXIST WITH HUMAN ACTIVITY NEARBY IN ORDER TO ENRICH THE SITE

**INFRASTRUCTURE DEVELOPMENT** - CREATING SPACES SUCH AS OVERLOOKS, BRIDGES, SAFETY MEASURES TO PREVENT INJURY OR DEATH, AND RESTROOM FACILITIES

## SOCIAL

**SOCIAL EQUITY AND INCLUSION** - PROMOTING AND FINDING RESOURCES TO INVOLVE ANYONE OF ANY RACE, BACKGROUND, GENDER, AND AGE IN AN INCLUSIVE MANNER

**ACCESSIBILITY** - DESIGNING SPACES TO ENCOURAGE PEOPLE OF ALL ABILITIES TO VISIT AND ENJOY THE SITE WITH SAFETY AS A PRIORITY

**COMMUNITY ENGAGEMENT** - CONNECTING WITH LOCAL BUSINESSES TO CREATE PARTNERSHIPS AND SUPPORT THROUGHOUT THE COMMUNITY AS TOURISM DRIVES VISITORS INTO THE TOWN

**ECONOMIC DEVELOPMENT** - CREATING JOBS THROUGH THE DESIGN AND INSTALL, MAINTENANCE, FACILITIES UPKEEP, AND STAFF POSITIONS PROVIDING JOBS FOR COMMUNITY MEMBERS

**EDUCATIONAL OUTREACH** - CONNECTING WITH LOCAL SCHOOLS, UNIVERSITIES, AND OTHER OUTREACH OPPORTUNITIES IN ORDER TO BRING PEOPLE TO THE PARK TO LEARN ABOUT THE HISTORY OF THE SITE AND THE NATIVE FLORA AND FAUNA

# **PROGRAMMATIC REQUIREMENTS**

**SIZE OF SITE:** 268,866 SQUARE FEET

**DEPTHS RANGE:** 4 TO 60 FEET

**USAGE:** RECREATIONAL PARK, EDUCATIONAL EXPERIENCE

**HOURS OF OPERATION:** SUNRISE TO SUNSET

**SEASONS OF USE:** SPRING, SUMMER, FALL, AND WINTER

**ENVIRONMENTAL CONDITIONS:** RUGGED & VARIABLE TOPOGRAPHY, MARBLE QUARRY, QUARRY PIT FLOODS WITH PRESENCE OF SPRING AND GROUND WATER POOLING, UNSTABLE SURFACES

**MATERIALS:** MARBLE, STONE, GRAVEL, WOOD (COMPLETE LATER)

**SUPPORT SERVICES:** TRAINING, EDUCATION, ADVOCACY, OUTREACH, FUNDING, CONSULTATION, ENVIRONMENTAL, ENGINEERING, AND EMERGENCY SERVICES

**COLORS:** WHITE, GRAY, BROWN, GREEN, BRONZE, BLUE, EARTHY TONES

**INTERCONNECTEDNESS:** SEAMLESS TRANSITIONS FROM ONE AREA TO THE NEXT, PARKING TO PICNICKING OR SWIMMING, TO HIKING AND EXPLORING, TO RELAXING AND VIEWING THE SITE

**COMMUNITY CONNECTEDNESS:** PARTNERSHIPS WITH LOCAL RESTAURANTS AND GROCERS FOR VISITORS TO GRAB SUPPLIES FOR MEALS OR SNACKS, CONNECTING WITH SCHOOLS FOR EDUCATIONAL OUTREACH, AND CITY COUNCIL AND SOCIETIES TO PROMOTE TOURISM

**ECOLOGICAL RESTORATION PLAN:** WETLAND, POLLENATION, FOREST, AND PRARIE STYLE HABITATS REBUILT WITH A 20 YEAR PLAN TO BRING BACK AND PROTECT ENDANGERED, THREATENED, AND AT RISK PLANT AND WILDLIFE COMPONENTS

# **THE DESIGN**

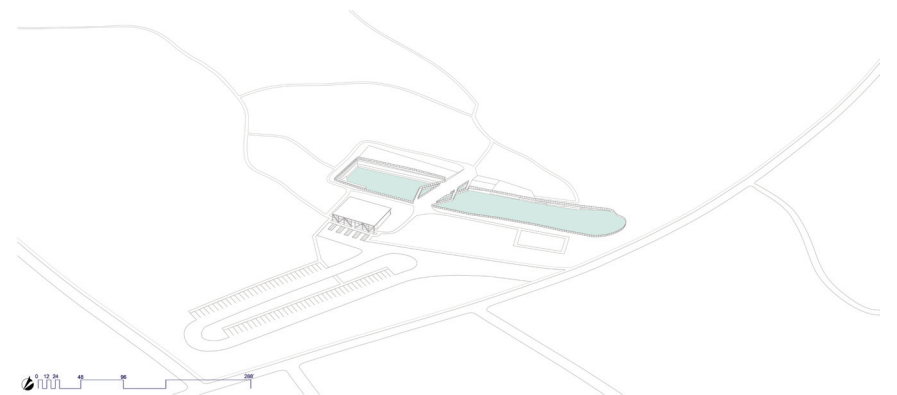
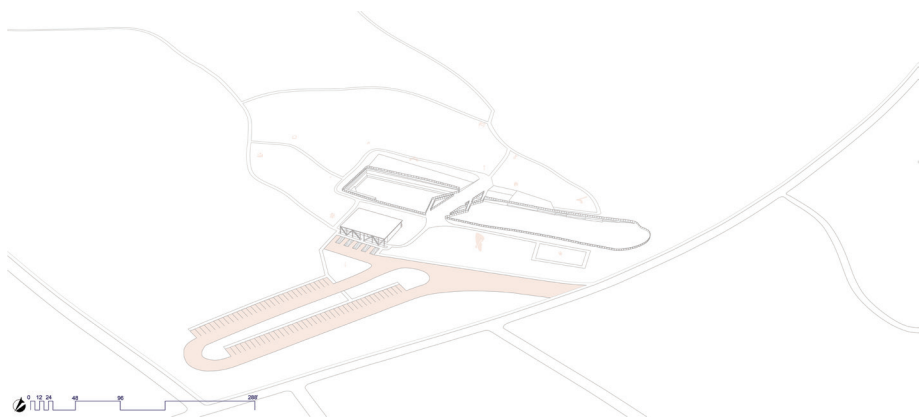
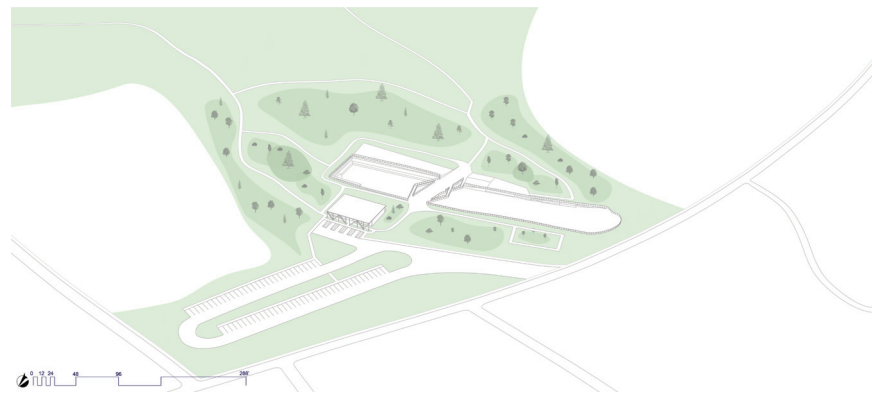
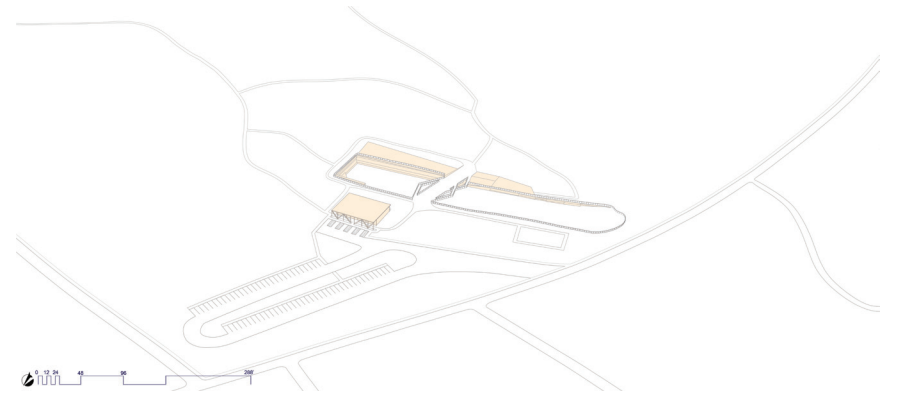
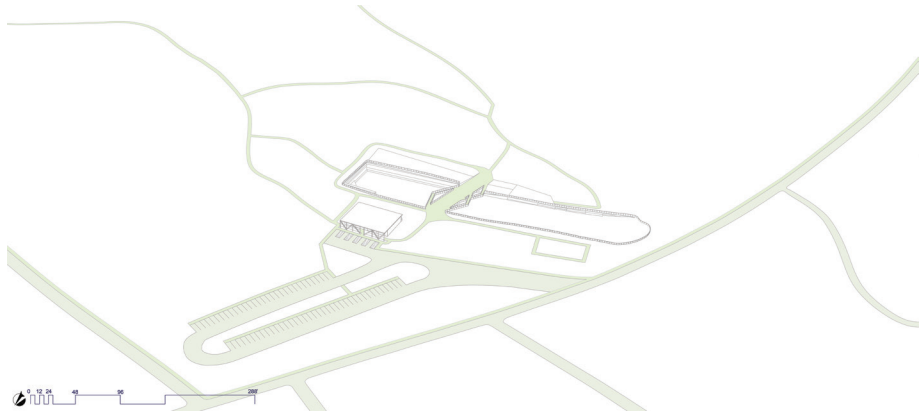


THIS DESIGN INTENT SELFS NATURE WITH HUMANITY. BY CREATING A VISITOR CENTER WITH WINDOWS IN THE FRONT AND BACK WALLS TO SHOW GUESTS WHAT THEY WILL EXPERIENCE, THE SPACE BEGINS TO FEEL MORE INCLUSIVE EVEN FROM INDOORS.

A BRIDGE AND SAFETY RAILING WERE ADDED IN AND AROUND THE QUARRY PIT TO PROMOTE SAFETY WHILE ALLOWING WETLAND CREATURES THE SPACE TO EXIST.

UTILIZING THE MARBLE SLABS LEFT AROUND THE PROPERTY, ARTISTS ARE ABLE TO COME IN AND CREATE PIECES TO HAVE ON ROTATING PUBLIC DISPLAY.

THE CULMINATION OF THESE IDEAS ADDS TO THE RICH HISTORY AND PROMOTES EDUCATION FOR ALL AGE GROUPS.



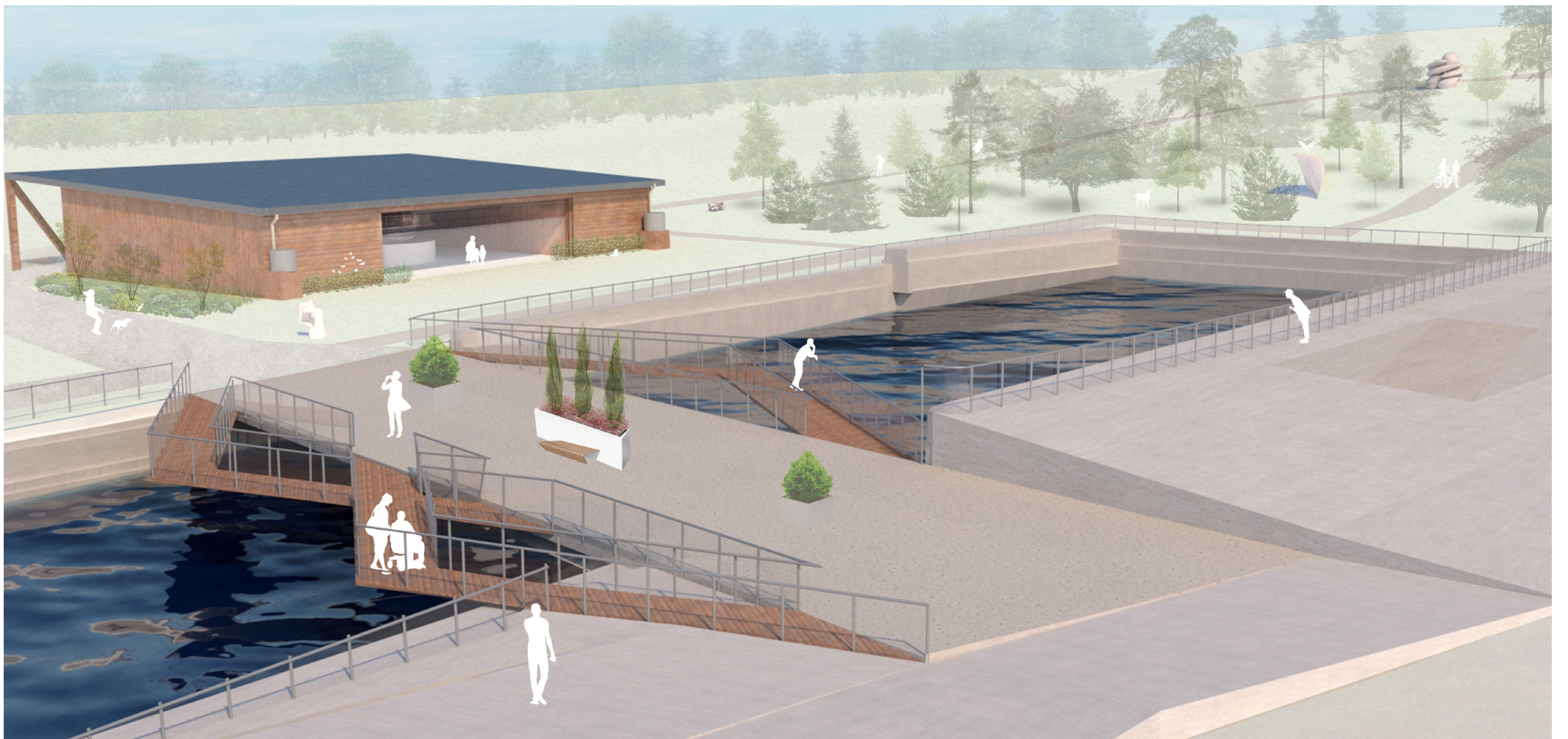


- I** *AMBYSTOMA LATERALE*  
BLUE-SPOTTED SALAMANDER  
**SPECIES OF CONCERN**
- II** *ANTROSTOMUS VOCIFERUS*  
EASTERN WHIP-POOR-WILL  
**THREATENED**
- III** *ASCLEPIAS TUBEROSA* SSP. *TUBEROSA*  
MILKWEED  
**THREATENED**
- IV** *BOMBUS TERRICOLA*  
YELLOW-BANDED BUMBLE BEE  
**THREATENED**
- V** *CANIS LUPUS*  
WOLF  
**RARE SIGHTINGS**
- VI** *CHLIDONIAS NIGER*  
BLACK TERN  
**ENDANGERED**
- VII** *CHORDEILES MINOR*  
COMMON NIGHTHAWK  
**ENDANGERED**
- VIII** *CICINDELA PATRUCLA*  
NORTHERN BARRENS TIGER BEETLE  
**SPECIES OF CONCERN**
- IX** *CLAVARIA ZOLLINGERI*  
VIOLET CORAL  
**THREATENED**
- X** *CLEMmys GUTTATA*  
SPOTTED TURTLE  
**ENDANGERED**
- XI** *DRYOPTERIS FILIX-MAS* SSP. *BRITTONII*  
MALE FERN  
**THREATENED**
- XII** *LINTNERIA EREMITUS*  
HERMIT SPHINX  
**SPECIES OF CONCERN**
- XIII** *LIRCEUS LINEATUS*  
ISOPOD  
**RARE SIGHTINGS**
- XIV** *LIRIODENDRON TULIPIFERA*  
TULIP TREE  
**ENDANGERED**
- XV** *MARTES AMERICANA*  
AMERICAN MARTEN  
**ENDANGERED**
- XVI** *MEGASCOPS ASIO*  
EASTERN SCREECH-OWL  
**RARE SIGHTINGS**
- XVII** *MELANERPES CAROLINUS*  
RED-BELLIED WOODPECKER  
**SPECIES OF CONCERN**
- XVIII** *MINIARTIA RUBELLA*  
MARBLE SANDWORT  
**THREATENED**
- XIX** *MYOTIS LUCIFUGUS*  
LITTLE BROWN BAT  
**ENDANGERED**
- XX** *NYMPHAEA LEIBERGII*  
DWARF WATER-LILY  
**ENDANGERED**
- XXI** *PIERIS VIRGINIENSIS*  
WEST VIRGINIA WHITE  
**SPECIES OF CONCERN**
- XXII** *PINUS BANKSIANA*  
JACK PINE  
**THREATENED**
- XXIII** *POECILE HUDSONICUS*  
BOREAL CHICKADEE  
**SPECIES OF CONCERN**
- XXIV** *PSEUDACRIS MACULATA*  
BOREAL CHORUS FROG  
**ENDANGERED**
- XXV** *SALVELINUS ALPINUS* OQUASSA  
SUNAPEE TROUT  
**RARE SIGHTINGS**
- XXVI** *SOLIDAGO ULMIFOLIA*  
ELM-LEAVED GOLDENROD  
**ENDANGERED**
- XXVII** *SOREX DISPAR*  
ROCK SHREW  
**SPECIES OF CONCERN**
- XXVIII** *THAMNOPHIS SAURITA*  
EASTERN RIBBON SNAKE  
**SPECIES OF CONCERN**

HABITAT AND SPECIES RESTORATION IS A PRIMARY FOCUS OF THIS REDESIGN. THE SPECIES DIAGRAMMED ON THE PREVIOUS PAGE ARE CONSIDERED, ENDANGERED, THREATENED, AT RISK, OR RARELY SPOTTED.

QUARRYING ACTIVITIES DIRECTLY IMPACT HABITAT LOSS AND THIS PLAN SHOWS HOW ONE SITE CAN BE REJUVENATED IN A 5, 10, AND 20 YEAR PERIOD TO BRING LIFE BACK TO A SITE AND HELP SAVE PRECIOUS PLANT AND ANIMAL SPECIES.



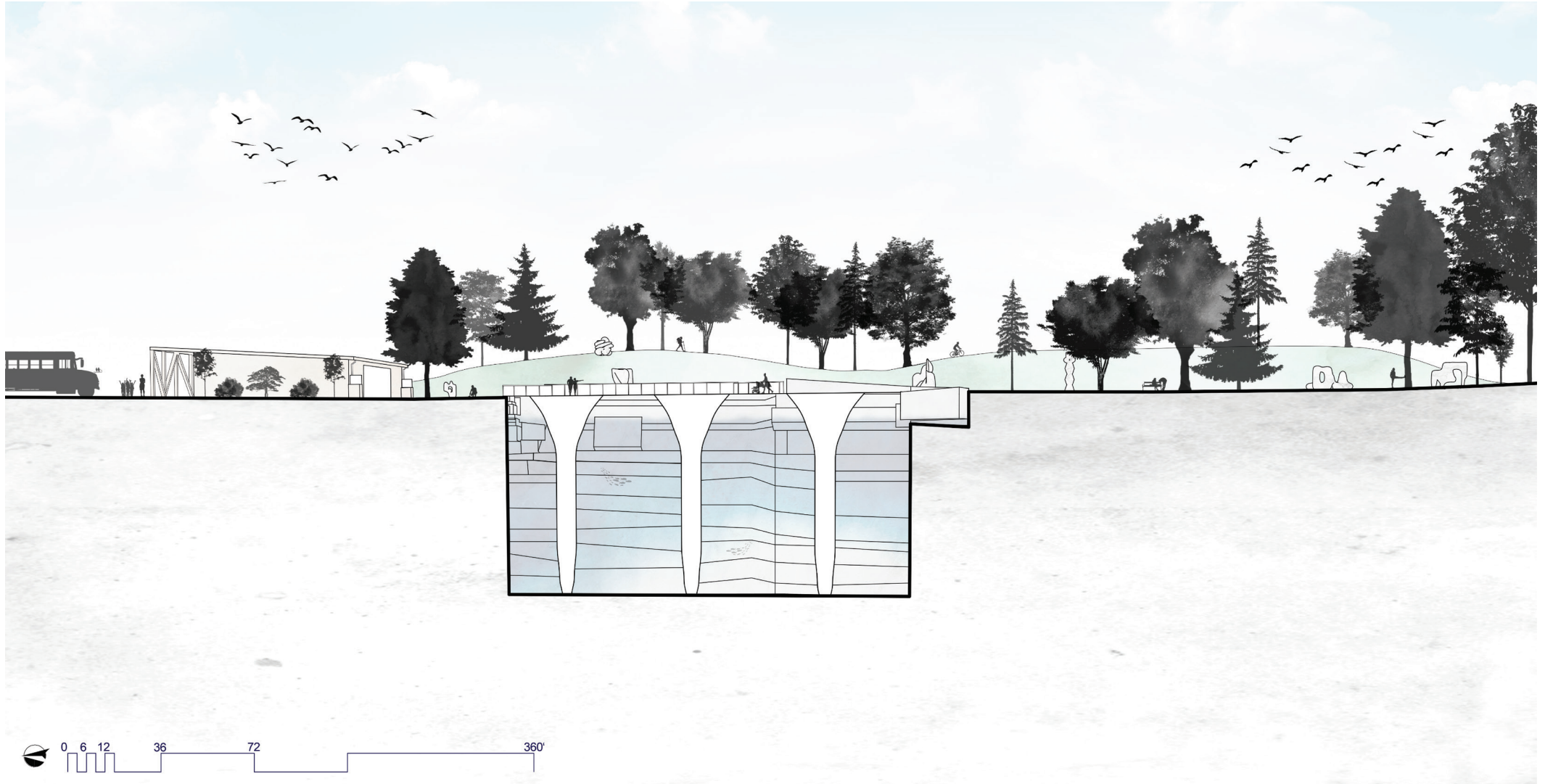


THESE THREE RENDERED PERSPECTIVES ARE INCLUDED TO SHOW THE VISITOR EXPERIENCE UP CLOSE. THE TOP LEFT IMAGE IS THE VIEW FROM THE LOBBY OF THE VISITOR CENTER THAT LOOKS OUT TO THE QUARRY AND SURROUNDING HABITATS.

THE BOTTOM LEFT RENDER IS A BIRDS EYE PERSPECTIVE SHOWCASING THE BRIDGE THAT CROSSES THE CENTER OF THE QUARRY AND DIRECTLY INTERACTS WITH THE MARBLE AT THE SITE, WHILE SHOWING THE VIEW BACK TO THE VISITOR CENTER AND TOWARDS THE WOODS - ONE SECTION OF HABITAT REHABILITATION.

THE BIRDS EYE PERSPECTIVE BELOW IS A VIEW OF THE POLLENATOR GARDEN WITH SCULPTURE ART. THIS AREA IS INTENDED TO BE USED FOR RELAXATION AND PICNICKING. IT STILL NEIGHBORS THE QUARRY WATERS AND ILLUSTRATIVE MARBLE WALLS OF THE PIT, BUT WORKS AS A MORE SERENE SECTION OF THE PARK.

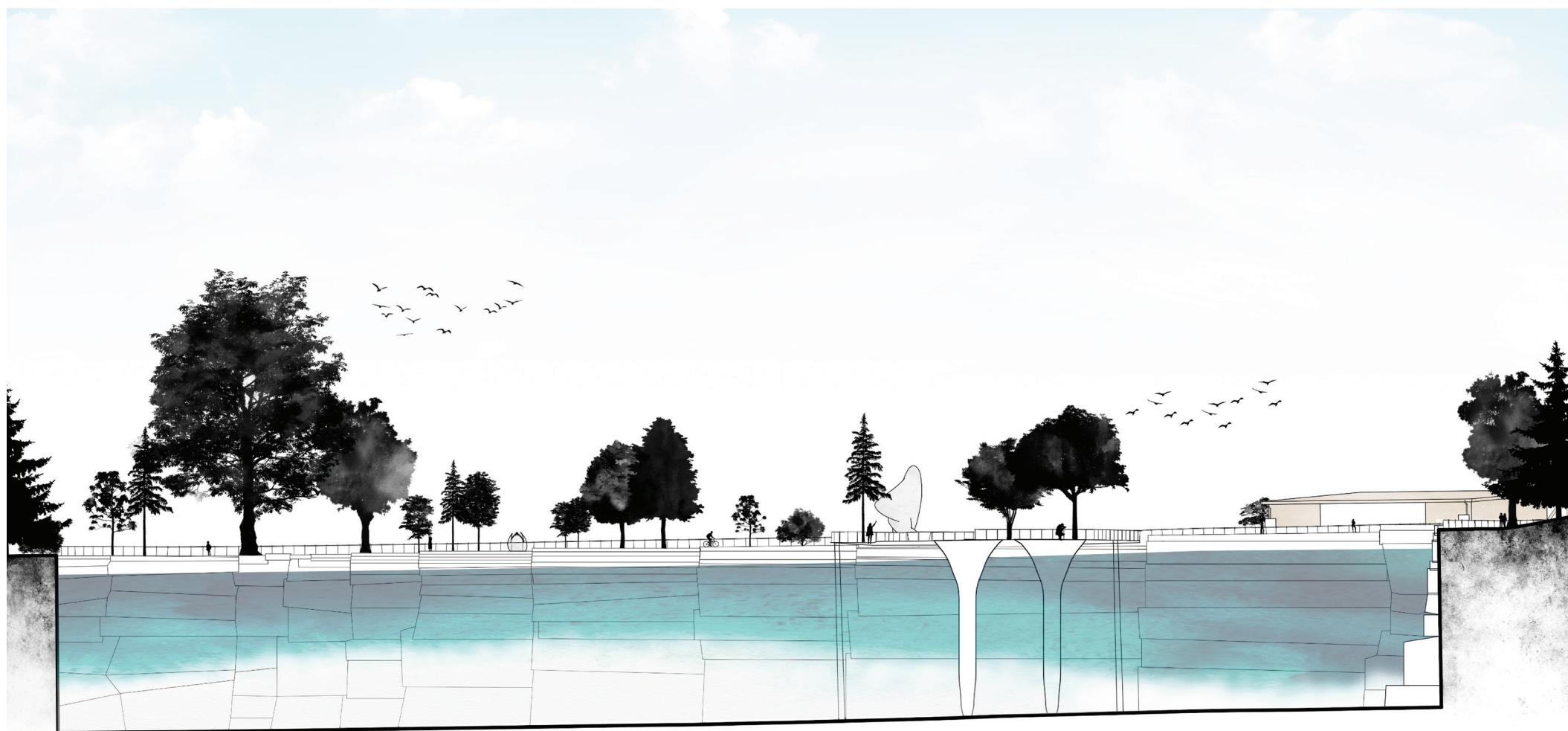




THE LAST PORTION TO SHOW OF THE DESIGN: THE SECTION CUTS.

THE LEFT CUT IS A CROSS TAKEN HORIZONTALLY THROUGH THE BRIDGE. THIS VIEW SHOWS THE VISITOR CENTER AND THE STEEP TOPOGRAPHY HEADING TO THE NATURAL FOREST.

THE CUT BELOW IS TAKEN THROUGH THE LONGEST PORTION OF THE QUARRY PIT. THIS CUT SHOW THE SIZE OF THE QUARRY, THE VISITOR CENTER, AND SOME OF THE AREAS PEOPLE INTERACT AND HABITATS THAT CAN BE EXPERIENCED.



# **THE RESEARCH**

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**FIN.**